Lyon County, Minnesota

[Data apply to the entire extent of the map unit within the survey area. Map unit and soil properties for a specific parcel of land may vary somewhat and should be determined by onsite investigation]

51--La Prairie Ioam

La Prairie, occasionally flooded

Extent: 95 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: alluvium

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 1

Flooding: occasional Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representative	e soil profile:	Texture	Permeability	Available water capacity	pН
Ap	0 to 7 in	loam	moderate	1.20 to 1.56 in	6.6 to 8.4
A,AB,Bw	7 to 40 in	loam	moderate	5.62 to 7.28 in	6.6 to 8.4
C 4	40 to 60 in	stratified fine sandy loam to silty clay loam	moderate	2.95 to 4.33 in	6.6 to 8.4

86--Canisteo clay loam

Canisteo

Extent: 95 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): flats Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 86

Parent material: till Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: none

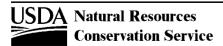
Hydric soil: yes

Ponding: none

Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A,ABg	0 to 22 in	loam	moderate	3.09 to 3.53 in	7.4 to 8.4
Bg	22 to 31 in	clay loam	moderate	1.63 to 1.99 in	7.4 to 8.4
Cg	31 to 60 in	clay loam	moderate	3.45 to 5.17 in	7.4 to 8.4



Lyon County, Minnesota

114--Glencoe silty clay loam

Glencoe

Extent: 95 percent of the unit

Landform(s): depressions

Wind erodibility group (WEG): 7

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 38

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3w
Flooding: none

Hydric soil: yes

Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative	soil profile:	Texture	Permeability	capacity	рН
Ap	0 to 10 in	silty clay loam	moderately slow	1.77 to 2.17 in	6.1 to 7.3
A,AB 1	0 to 42 in	clay loam	moderately slow	5.81 to 7.10 in	6.1 to 7.3
Bg 4	2 to 47 in	loam	moderately slow	0.71 to 0.90 in	6.6 to 7.8
Cg 4	7 to 60 in	clay loam	moderate	1.95 to 2.47 in	6.6 to 7.8

127--Sverdrup sandy loam, 0 to 2 percent slopes

Sverdrup

Extent: 90 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 3

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .20

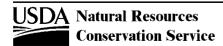
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: low

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap	0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw	9 to 32 in	sandy loam	moderately rapid	1.83 to 3.20 in	6.1 to 7.3
C	32 to 60 in	sand	rapid	0.56 to 1.68 in	7.4 to 8.4



I Available water

Lyon County, Minnesota

127B--Sverdrup sandy loam, 2 to 6 percent slopes

Sverdrup

Extent: 90 percent of the unit

Soil loss tolerance (T factor): 4

Landform(s): moraines Wind erodibility group (WEG): 3
Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: low

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap	0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw	9 to 32 in	sandy loam	moderately rapid	1.83 to 3.20 in	6.1 to 7.3
C 3	2 to 60 in	sand	rapid	0.56 to 1.68 in	7.4 to 8.4

149B--Everly clay loam, 2 to 4 percent slopes

Everly

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 6
Slope gradient: 2 to 4 percent Wind erodibility index (WEI): 48

Parent material: till Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 2e

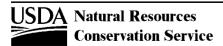
Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: B

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ар	0 to 10 in	clay loam	moderately slow	1.67 to 1.87 in	6.1 to 7.3
Bw 1	0 to 26 in	clay loam	moderately slow	2.42 to 2.74 in	6.1 to 7.3
C 2	26 to 60 in	loam	moderately slow	5.76 to 6.43 in	7.4 to 8.4



Lyon County, Minnesota

149B2--Everly clay loam, 3 to 6 percent slopes, eroded

Everly, eroded

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 6

Slope gradient: 3 to 6 percent

Wind erodibility index (WEI): 48

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2e
Flooding: none

Hydric soil: no

Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ар	0 to 10 in	clay loam	moderately slow	1.67 to 1.87 in	6.1 to 7.3
Bw	10 to 26 in	clay loam	moderately slow	2.42 to 2.74 in	6.1 to 7.3
C :	26 to 60 in	loam	moderately slow	5.76 to 6.43 in	7.4 to 8.4

149C2--Everly clay loam, 6 to 12 percent slopes, eroded

Everly, eroded

Extent: 90 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 6 to 12 percent Wind erodibility index (WEI): 48

Parent material: till Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

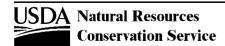
Land capability, nonirrigated 3e

Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: B

Representative soil profile:	Texture	Permeability	Available water capacity	pН
Ap 0 to 10 in	clay loam	moderately slow	1.67 to 1.87 in	6.1 to 7.3
Bw 10 to 26 in	clay loam	moderately slow	2.42 to 2.74 in	6.1 to 7.3
C 26 to 60 in	loam	moderately slow	5.76 to 6.43 in	7.4 to 8.4



Lyon County, Minnesota

184--Hamerly loam, 1 to 3 percent slopes

Hamerly

Extent: 90 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): moraines

Wind erodibility group (WEG): 4L

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 86

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: somewhat poorly drained Potential for frost action: high

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
A,AB	0 to 17 in	loam	moderate	3.39 to 4.06 in	7.4 to 8.4
Bk1 1	7 to 26 in	loam	moderate	1.36 to 1.72 in	7.4 to 8.4
Bk2,C 2	6 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

210--Fulda silty clay

Fulda

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): flats

Slope gradient: 0 to 2 percent

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

Parent material: lacustrine deposits

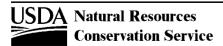
Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 17 in	silty clay	slow	2.37 to 3.39 in	6.6 to 7.3
Bg 17	7 to 28 in	silty clay	slow	1.43 to 1.76 in	7.4 to 8.4
Cg 28	8 to 60 in	silty clay	slow	5.10 to 6.06 in	7.4 to 8.4



Lyon County, Minnesota

212--Sinai silty clay, 1 to 3 percent slopes

Sinai

Extent: 90 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): moraines

Wind erodibility group (WEG): 4

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 86

Parent material: lacustrine deposits

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3e

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: C

Drainage class: moderately well drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A,AB 0 to 17 in	silty clay	slow	2.20 to 2.71 in	6.1 to 7.3
Bw 17 to 33 in	silty clay	slow	2.74 to 3.07 in	6.6 to 7.8
Bk 33 to 47 in	silty clay	very slow	1.52 to 2.34 in	7.4 to 8.4
C 47 to 60 in	silty clay loam	very slow	1.43 to 2.21 in	7.4 to 8.4

219--Rolfe loam

Rolfe

Extent: 90 percent of the unit

Landform(s): depressions

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 48

Parent material: till Kw factor (surface layer) .37

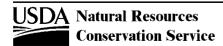
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: C/D

Drainage class: very poorly drained Potential for frost action: high

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 20 in	loam	moderate	4.42 to 4.82 in	6.1 to 7.3
Btg 2	20 to 32 in	clay	slow	1.30 to 1.54 in	6.1 to 7.3
Cg 3	32 to 60 in	loam	moderate	3.91 to 4.47 in	6.1 to 8.4



Lyon County, Minnesota

241--Letri clay loam

Letri

Extent: 90 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): swales

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: none

Hydric soil: yes

Ponding: none

Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative	e soil profile:	Tex	xture	Permeability	Available water capacity	рН
Ap,A,AB	0 to 20 in	clay loam		moderately slow	3.61 to 4.42 in	6.1 to 7.3
Bg :	20 to 35 in	clay loam		moderately slow	2.24 to 2.84 in	6.1 to 7.3
Cg	35 to 60 in	loam		moderately slow	4.22 to 4.71 in	6.6 to 8.4

246--Marysland loam

Marysland

Extent: 90 percent of the unit Soil loss tolerance (T factor): 4

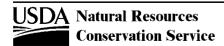
Landform(s): flatsWind erodibility group (WEG): 4LSlope gradient: 0 to 2 percentWind erodibility index (WEI): 86Parent material: outwashKw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:		Texture	Permeability	Available water capacity	рН
Ap,A,Ak	0 to 18 in	loam	moderate	3.08 to 3.98 in	7.4 to 8.4
Bk	18 to 42 in	loam	moderate	3.60 to 4.56 in	7.4 to 8.4
2C	42 to 60 in	stratified gravelly coarse sand to	rapid	0.35 to 1.24 in	7.4 to 8.4



Lyon County, Minnesota

276--Oldham silty clay loam

Oldham

Extent: 90 percent of the unit

Landform(s): depressions

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 86

Parent material: lacustrine deposits

Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: C/D

Drainage class: very poorly drained Potential for frost action: high

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 13 in	silty clay loam	moderately slow	1.69 to 2.47 in	7.4 to 7.8
Bg	13 to 31 in	silty clay loam	moderately slow	2.54 to 3.62 in	7.4 to 8.4
Cg	31 to 60 in	silty clay loam	moderately slow	4.02 to 5.75 in	7.4 to 8.4

335--Urness silt loam

Urness

Extent: 90 percent of the unit

Landform(s): depressions

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 86

Parent material: lacustrine deposits

Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches

Flooding: none

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .32

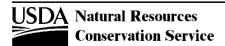
Land capability, nonirrigated 3w

Hydric soil: yes

Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap	0 to 9 in	silt loam	moderate	1.81 to 1.99 in	7.4 to 8.4
A	9 to 44 in	mucky silty clay loam	moderate	5.61 to 7.71 in	7.4 to 8.4
2Cg 4	44 to 60 in	silty clay loam	moderate	2.20 to 3.15 in	7.4 to 8.4



Lyon County, Minnesota

339--Fordville loam, 0 to 2 percent slopes

Fordville

Extent: 90 percent of the unit Soil loss tolerance (T factor): 4

Landform(s): moraines Wind erodibility group (WEG): 6
Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 48
Parent material: outwash Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 12 in	loam	moderate	2.13 to 2.36 in	6.1 to 7.3
Bw 12 to 23 in	loam	moderate	1.98 to 2.31 in	6.1 to 7.3
Bk 23 to 28 in	loam	moderately rapid	0.61 to 0.92 in	6.1 to 8.4
2C 28 to 60 in	gravelly sand	rapid	0.96 to 1.91 in	7.4 to 8.4



Lyon County, Minnesota

339B--Fordville loam, 2 to 6 percent slopes

Fordville

Extent: 90 percent of the unit Soil loss tolerance (T factor): 4

Landform(s): moraines Wind erodibility group (WEG): 6

Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 48

Parent material: outwash Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: low

Representative soil	profile:	Texture	Permeability	capacity	pН
Ap 0 to	10 in	loam	moderate	1.77 to 1.97 in	6.1 to 7.3
Bw 10 to	21 in	loam	moderate	1.98 to 2.31 in	6.1 to 7.3
Bk 21 to	26 in	loam	moderately rapid	0.61 to 0.92 in	6.1 to 8.4
2C 26 to	60 in	gravelly sand	rapid	1.02 to 2.03 in	7.4 to 8.4

341--Arvilla sandy loam, 0 to 2 percent slopes

Arvilla

Extent: 90 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): outwash plains, stream terracesWind erodibility group (WEG): 3Slope gradient: 0 to 2 percentWind erodibility index (WEI): 86Parent material: outwashKw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3s

Flooding: none

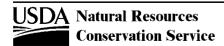
Hydric soil: no

Ponding: none

Hydrologic group: A

Drainage class: somewhat excessively drained Potential for frost action: low

Representative	soil profile:	Texture	Permeability	available water capacity	рН
Ap	0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw,BC	9 to 19 in	sandy loam	moderately rapid	1.08 to 1.38 in	6.6 to 7.3
2C ′	19 to 60 in	gravelly coarse sand	rapid	0.82 to 2.05 in	7.4 to 8.4



Available water

A. allahla ...atau

Lyon County, Minnesota

341B--Arvilla sandy loam, 2 to 6 percent slopes

Arvilla

Extent: 90 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): outwash plains, stream terraces Wind erodibility group (WEG): 3

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4s

Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: A

Drainage class: somewhat excessively drained Potential for frost action: low

Representative	soil profile:	Texture	Permeability	Available water capacity	pН
Ap	0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw,BC	9 to 19 in	sandy loam	moderately rapid	1.08 to 1.38 in	6.6 to 7.3
2C 1	9 to 60 in	gravelly coarse sand	rapid	0.82 to 2.05 in	7.4 to 8.4

341C--Arvilla sandy loam, 6 to 12 percent slopes

Arvilla

Extent: 90 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): outwash plains, stream terraces Wind erodibility group (WEG): 3

Slope gradient: 6 to 12 percent Wind erodibility index (WEI): 86

Parent material: outwash Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4e

Flooding: none

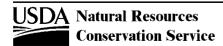
Hydric soil: no

Ponding: none

Hydrologic group: A

Drainage class: somewhat excessively drained Potential for frost action: low

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
Ар	0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw,BC	9 to 19 in	sandy loam	moderately rapid	1.08 to 1.38 in	6.6 to 7.3
2C	19 to 60 in	gravelly coarse sand	rapid	0.82 to 2.05 in	7.4 to 8.4



Lyon County, Minnesota

347--Malachy loam

Malachy

Extent: 90 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: high

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A,AB	0 to 15 in	loam	moderate	2.99 to 3.29 in	7.4 to 8.4
Bk,C	15 to 36 in	fine sandy loam	moderately rapid	2.50 to 3.96 in	7.4 to 8.4
2C 3	36 to 60 in	sand	rapid	0.48 to 2.40 in	7.4 to 8.4

402E--Sioux soils, 2 to 40 percent slopes

Sioux

Extent: 90 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): morainesWind erodibility group (WEG): 5Slope gradient: 2 to 40 percentWind erodibility index (WEI): 56Parent material: outwashKw factor (surface layer) .15

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 6s

Flooding: none

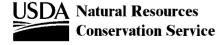
Hydric soil: no

Ponding: none

Hydrologic group: A

Drainage class: excessively drained Potential for frost action: low

Representativ	re soil profile:	Texture	Permeability	Available water capacity	рН
A	0 to 11 in	gravelly sandy loam	moderately rapid	1.10 to 1.65 in	7.4 to 8.4
C	11 to 16 in	gravelly sandy loam	moderately rapid	0.51 to 0.77 in	7.4 to 8.4
2C	16 to 60 in	very gravelly sand	rapid	1.31 to 2.62 in	7.4 to 8.4



Lyon County, Minnesota

421B--Ves loam, 1 to 4 percent slopes

Ves

Extent: 90 percent of the unit

Landform(s): moraines

Slope gradient: 1 to 4 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative	soil profile:	Textur	re	Permeability	Available water capacity	рН
Ap,AB	0 to 11 in	loam		moderate	1.87 to 2.43 in	6.1 to 7.3
Bw 1	11 to 21 in	loam		moderate	1.48 to 1.87 in	6.1 to 7.3
Bk 2	21 to 36 in	loam		moderate	2.24 to 2.84 in	7.4 to 8.4
C 3	36 to 60 in	loam		moderate	3.60 to 4.56 in	7.4 to 8.4

Lyon County, Minnesota

421B2--Ves loam, 3 to 6 percent slops, eroded

Ves, eroded

Extent: 90 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): moraines

Wind erodibility group (WEG): 6

Slope gradient: 3 to 6 percent

Wind erodibility index (WEI): 48

Parent material: till

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative	soil profile:		Texture	Permeability	Available water capacity	рН
Ap,AB	0 to 11 in	loam		moderate	1.87 to 2.43 in	6.1 to 7.3
Bw 1	11 to 21 in	loam		moderate	1.48 to 1.87 in	6.6 to 7.3
Bk 2	21 to 36 in	loam		moderate	2.24 to 2.84 in	7.4 to 8.4
C 3	36 to 60 in	loam		moderate	3.60 to 4.56 in	7.4 to 8.4

423--Seaforth loam, 1 to 3 percent slopes

Seaforth

Extent: 90 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): morainesWind erodibility group (WEG): 4LSlope gradient: 1 to 3 percentWind erodibility index (WEI): 86Parent material: tillKw factor (surface layer) .24

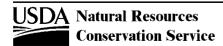
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: high

Representative	e soil profile:	Texture	Permeability	capacity	рН
Ap,AB	0 to 15 in	loam	moderate	2.54 to 3.59 in	7.4 to 8.4
Bk	15 to 24 in	loam	moderate	1.36 to 1.72 in	7.4 to 8.4
C :	24 to 60 in	loam	moderate	6.09 to 6.81 in	7.4 to 8.4



I Amellahla matan I

Lyon County, Minnesota

437E--Buse loam, 18 to 25 percent slopes

Buse

Extent: 90 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): moraines

Wind erodibility group (WEG): 4L

Slope gradient: 18 to 25 percent Wind erodibility index (WEI): 86

Parent material: till Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 6e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
A,AB	0 to 14 in	loam	moderate	2.34 to 3.03 in	7.4 to 8.4
Bk 1	14 to 26 in	loam	moderate	1.71 to 2.32 in	7.4 to 8.4
C 2	26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

437F--Buse loam, 25 to 40 percent slopes

Buse

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 4L

Slope gradient: 25 to 40 percent

Wind erodibility index (WEI): 86

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 7e

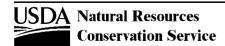
Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: B

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
A,AB	0 to 14 in	loam	moderate	2.34 to 3.03 in	7.4 to 8.4
Bk ′	14 to 26 in	loam	moderate	1.71 to 2.32 in	7.4 to 8.4
C 2	26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4



Lyon County, Minnesota

446--Normania loam, 1 to 3 percent slopes

Normania

Extent: 90 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): moraines

Wind erodibility group (WEG): 6

Slope gradient: 1 to 3 percent Wind erodibility index (WEI): 48
Parent material: till Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 1

Flooding: none

Hydric soil: no

Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A,AB 0 to 17 in	loam	moderate	3.39 to 3.72 in	6.1 to 7.3
Bw 17 to 26 in	loam	moderate	1.36 to 1.72 in	6.6 to 7.3
Bkg 26 to 50 in	loam	moderate	3.60 to 4.56 in	7.4 to 8.4
Cg 50 to 60 in	loam	moderate	1.48 to 1.87 in	7.4 to 8.4

450--Rauville silty clay loam

Rauville, frequently flooded

Extent: 90 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

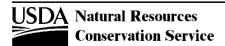
Land capability, nonirrigated 5w
Flooding: frequent

Hydric soil: yes

Ponding: none Hydrologic group: D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile	Texture	Permeability	Available water capacity	рН
A 0 to 38 in	silty clay loam	moderate	7.18 to 8.31 in	7.4 to 8.4
Cg 38 to 60 in	silty clay loam	moderate	3.75 to 4.41 in	7.4 to 8.4



Available water

Lyon County, Minnesota

894D2--Storden-Everly complex, 12 to 18 percent slopes, eroded

Storden, eroded

Extent: 60 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): moraines

Wind erodibility group (WEG): 4L

Slope gradient: 12 to 18 percent

Wind erodibility index (WEI): 86

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4e

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil pro	ofile:	Texture	Permeability	capacity	рН
Ap 0 to 7 in	loam		moderately slow	1.42 to 1.56 in	7.4 to 8.4
Bk 7 to 23	in loam		moderately slow	2.36 to 2.99 in	7.4 to 8.4
C 23 to 60 i	in loam		moderately slow	5.55 to 7.03 in	7.4 to 8.4

Everly, eroded

Extent: 35 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 6
Slope gradient: 12 to 15 percent Wind erodibility index (WEI): 48

Parent material: till Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3e

Flooding: none

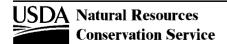
Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap	0 to 7 in	clay loam	moderately slow	1.20 to 1.35 in	6.1 to 7.3
Bw	7 to 19 in	loam	moderately slow	1.77 to 2.01 in	6.1 to 7.3
C	19 to 60 in	loam	moderately slow	6.96 to 7.78 in	7.4 to 8.4



Available water

Lyon County, Minnesota

904B2--Arvilla-Barnes-Buse complex, 2 to 6 percent slopes, eroded

Arvilla

Extent: 40 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): moraines Wind erodibility group (WEG): 3

Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 86

Parent material: outwash Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4s

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: somewhat excessively drained Potential for frost action: low

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap	0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw	9 to 16 in	sandy loam	moderately rapid	0.78 to 0.99 in	6.6 to 7.3
2C 1	6 to 60 in	gravelly coarse sand	rapid	0.87 to 2.19 in	7.4 to 8.4

Barnes, eroded

Extent: 30 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 6
Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 48

Parent material: till Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

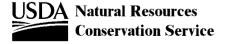
Land capability, nonirrigated 2e

Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: B

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ар	0 to 7 in	loam	moderate	1.28 to 1.70 in	6.1 to 7.3
Bw	7 to 14 in	sandy clay loam	moderate	1.00 to 1.27 in	6.1 to 7.3
Bk.C 1	4 to 60 in	loam	moderate	6.45 to 8.75 in	7.4 to 8.4



Lyon County, Minnesota

904B2--Arvilla-Barnes-Buse complex, 2 to 6 percent slopes, eroded

Buse, eroded

Extent: 20 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): moraines

Wind erodibility group (WEG): 4L

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 86

Parent material: till

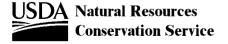
Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
A,AB	0 to 7 in	loam	moderate	1.20 to 1.56 in	7.4 to 8.4
Bk	7 to 26 in	loam	moderate	2.65 to 3.59 in	7.4 to 8.4
C 2	26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4



Lyon County, Minnesota

953C--Arvilla-Storden-Ves complex, 6 to 15 percent slopes

Arvilla

Extent: 40 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Slope gradient: 6 to 15 percent

Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4e

Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: B

Drainage class: somewhat excessively drained Potential for frost action: low

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap	0 to 8 in	sandy loam	moderately rapid	1.02 to 1.18 in	6.1 to 7.3
Bw	8 to 16 in	sandy loam	moderately rapid	0.91 to 1.16 in	6.6 to 7.3
2C 1	6 to 60 in	gravelly coarse sand	rapid	0.87 to 2.19 in	7.4 to 8.4

Storden

Extent: 30 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 4L

Slope gradient: 6 to 15 percent

Wind erodibility index (WEI): 86

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3e

Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: B

Representative soil profil	e: Texture	Permeability	capacity	рН
Ap 0 to 7 in	loam	moderate	1.42 to 1.56 in	7.4 to 8.4
Bk 7 to 23 in	loam	moderate	2.36 to 2.99 in	7.4 to 8.4
C 23 to 60 in	loam	moderate	5.55 to 7.03 in	7.4 to 8.4



Lyon County, Minnesota

953C--Arvilla-Storden-Ves complex, 6 to 15 percent slopes

Ves

Extent: 25 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG):

Landform(s): morainesWind erodibility group (WEG): 6Slope gradient: 6 to 15 percentWind erodibility index (WEI): 48Parent material: tillKw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Representative soil	profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to	8 in loa	am	moderate	1.34 to 1.73 in	6.1 to 7.3
Bw 8 to	18 in loa	am	moderate	1.54 to 1.94 in	6.6 to 7.3
Bk 18 to	36 in loa	am	moderate	2.66 to 3.37 in	7.4 to 8.4
C 36 to	60 in loa	am	moderate	3.60 to 4.56 in	7.4 to 8.4

Lyon County, Minnesota

954C2--Storden-Ves loams, 5 to 12 percent slopes, eroded

Storden, eroded

Extent: 55 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): moraines

Wind erodibility group (WEG): 4L

Slope gradient: 5 to 12 percent

Wind erodibility index (WEI): 86

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ар	0 to 7 in	loam	moderate	1.42 to 1.56 in	7.4 to 8.4
Bk	7 to 23 in	loam	moderate	2.36 to 2.99 in	7.4 to 8.4
C 2	23 to 60 in	loam	moderate	5.55 to 7.03 in	7.4 to 8.4

Ves, eroded

Extent: 35 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 6
Slope gradient: 5 to 12 percent Wind erodibility index (WEI): 48

Parent material: till Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

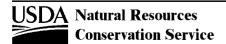
Land capability, nonirrigated 3e

Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: B

Representative	soil profile:		Texture	Permeability	Available water capacity	рН
Ap	0 to 8 in	loam		moderate	1.34 to 1.73 in	6.1 to 7.3
Bw	8 to 18 in	loam		moderate	1.54 to 1.94 in	6.6 to 7.3
Bk 1	8 to 36 in	loam		moderate	2.66 to 3.37 in	7.4 to 8.4
C 3	6 to 60 in	loam		moderate	3.60 to 4.56 in	7.4 to 8.4



Lyon County, Minnesota

954D2--Storden-Ves loams, 12 to 18 percent slopes, eroded

Storden, eroded

Extent: 60 percent of the unit Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 4e Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Available water

Representative soil profile	e: Texture	Permeability	capacity	рН
Ap 0 to 7 in	loam	moderate	1.42 to 1.56 in	7.4 to 8.4
Bk 7 to 23 in	loam	moderate	2.36 to 2.99 in	7.4 to 8.4
C 23 to 60 in	loam	moderate	5.55 to 7.03 in	7.4 to 8.4

Ves, eroded

Extent: 30 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 6

Slope gradient: 12 to 18 percent Wind erodibility index (WEI): 48

Exercise transfer is a second with the second wind erodibility index (WEI): 48

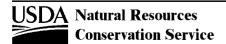
Exercise transfer is a second with the second wind erodibility index (WEI): 48

Parent material: till Kw factor (surface layer) .24
Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 4e

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: B

Representative	soil profile:		Texture	Permeability	Available water capacity	рН
Ap	0 to 8 in	loam		moderate	1.34 to 1.73 in	6.1 to 7.3
Bw	8 to 18 in	loam		moderate	1.54 to 1.94 in	6.6 to 7.3
Bk 1	8 to 36 in	loam		moderate	2.66 to 3.37 in	7.4 to 8.4
C 3	6 to 60 in	loam		moderate	3.60 to 4.56 in	7.4 to 8.4



Lyon County, Minnesota

986--Lamoure and La Prairie soils, frequently flooded

Lamoure, frequently flooded

Extent: 45 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 6w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 25 in	silty clay loam	moderate	4.79 to 5.54 in	7.4 to 8.4
Bg	25 to 38 in	silty clay loam	moderate	2.14 to 2.52 in	7.4 to 8.4
Cg	38 to 60 in	silty clay loam	moderate	3.75 to 4.41 in	7.4 to 8.4

La Prairie, frequently flooded

Extent: 45 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: alluvium

Kw factor (surface layer) .24

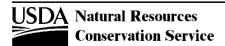
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 6w

Flooding: frequent Hydric soil: yes

Ponding: none Hydrologic group: B

Representativ	e soil prof	ile: Texture	Permeability	Available water capacity	рН
Ар	0 to 7 in	loam	moderate	1.20 to 1.56 in	6.6 to 8.4
A,AB,Bw	7 to 40 in	loam	moderate	5.62 to 7.28 in	6.6 to 8.4
C	40 to 60 in	stratified fine sandy loam to silty clay loam	moderate	2.95 to 4.33 in	6.6 to 8.4



Lyon County, Minnesota

1003B--Udorthents (cut and fill land), 0 to 6 percent slopes

Udorthents, (cut and fill land)

Extent: 100 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 4L

Slope gradient: 0 to 6 percent Wind erodibility index (WEI): 86

Parent material: variable loamy material

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated

Flooding: none Hydric soil:

Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

1007--Udorthents, shallow (sanitary landfill)

Udorthents, shallow, sanitary landfill

Extent: 100 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 4L

Slope gradient: 0 to 20 percent Wind erodibility index (WEI): 86

Parent material: variable soil material Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated

Flooding: Hydric soil:

Ponding: Hydrologic group: B

Drainage class: well drained Potential for frost action:

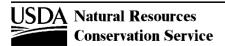
Representative soil profile:

Texture

Permeability

Available water capacity

pH



Lyon County, Minnesota

1016--Udorthents

Udorthents

Extent: 100 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 4L

Slope gradient: 0 to 6 percent Wind erodibility index (WEI): 86

Parent material: variable soil material

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated

Flooding: none

Hydric soil:

Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

1024A--Havelock clay loam, 0 to 2 percent slopes. occasionally flooded

Havelock, occasionally flooded

Extent: 75 to 85 percent of the unit

Landform(s): flats on flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

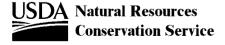
Land capability, nonirrigated 2w
Flooding: occasional

Hydric soil: yes

Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative	soil profile:	Texture	Permeability	capacity	pН
Ap,A1,A2	0 to 32 in	clay loam	moderate	5.42 to 7.33 in	7.4 to 8.4
Cg 3	2 to 60 in	clay loam	moderate	4.75 to 5.59 in	7.4 to 8.4



Available water

Lyon County, Minnesota

1029--Pits, gravel

Pits, gravel

Extent: 100 percent of the unit

Landform(s): outwash plains, stream terraces

Slope gradient:

Parent material: sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none Drainage class:

z ramago olaco.

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated

Hydric soil:

Hydrologic group:

Potential for frost action:

Representative soil profile: Texture

Permeability

Available water capacity

рΗ

Lyon County, Minnesota

1032--Aquents and Udorthents

Aquents

Extent: 65 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): moraines

Wind erodibility group (WEG): 3

Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 86

Parent material: loamy or sandy material Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 5w

Flooding: none Hydric soil:

Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Udorthents

Extent: 30 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 2

Slope gradient: 0 to 15 percent Wind erodibility index (WEI): 134

Parent material: loamy or sandy material

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4s

Flooding: none Hydric soil:

Ponding: none Hydrologic group: A

Drainage class: excessively drained Potential for frost action:

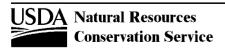
Representative soil profile:

Texture

Permeability

Available water capacity

PH



Lyon County, Minnesota

1053--Aquolls and Aquents, ponded

Aquolls, ponded

Extent: 55 percent of the unit

Landform(s): depressions

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 8

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 0

Parent material: till Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 8w

Flooding: none

Hydric soil: yes

Ponding: frequent

Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

Aquents, ponded

Extent: 35 percent of the unitSoil loss tolerance (T factor): 5Landform(s): depressionsWind erodibility group (WEG): 8Slope gradient: 0 to 1 percentWind erodibility index (WEI): 0

Parent material: till Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 8w

Flooding: noneHydric soil: yesPonding: frequentHydrologic group: B/DDrainage class: very poorly drainedPotential for frost action:

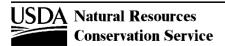
Representative soil profile:

Texture

Permeability

Available water capacity

pH



Lyon County, Minnesota

Soil loss tolerance (T factor):

1356--Water, miscellaneous

Water, miscellaneous

Extent: 100 percent of the unit

Landform(s): Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated

Flooding: Hydric soil:
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Lyon County, Minnesota

1809--Bearden complex

Bearden, occasionally flooded

Extent: 50 percent of the unit

Landform(s): -- error in exists on -
Slope gradient: 0 to 2 percent

Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: occasional Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .37 Land capability, nonirrigated 2s

Hydric soil: no Hydrologic group: B

Potential for frost action: high

L Δvailable water □

Representative soil	profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to	16 in	silty clay loam	moderate	2.74 to 3.71 in	7.4 to 8.4
Bk 16 to	37 in	silt loam	moderate	3.34 to 4.59 in	7.4 to 8.4
Cg 37 to	80 in	stratified silt loam to silty clay loam	moderate	6.87 to 9.44 in	7.4 to 8.4

Du Page, occasionally flooded

Extent: 40 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): flats Wind erodibility group (WEG): 6

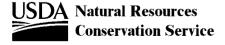
Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 48
Parent material: alluvium Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: occasional Hydric soil: no
Ponding: none Hydrologic group: B

Representative soil profile:	Texture	Permeability	capacity	pН
Ap,A 0 to 36 in	loam	moderate	7.17 to 7.88 in	6.6 to 8.4
C1 36 to 60 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4
C2 60 to 64 in	stratified loam to sandy clay loam	moderately rapid	0.67 to 0.75 in	7.9 to 8.4



Lyon County, Minnesota

1810--Colvin complex

Colvin, occasionally flooded

Extent: 55 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): flats Wind erodibility group (WEG): 4L

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 86

Parent material: lacustrine deposits Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: occasional Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil	l profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to	10 in	clay loam	moderately slow	1.67 to 2.26 in	7.4 to 8.4
Bg 10 to	30 in	silty clay loam	moderately slow	3.21 to 4.02 in	7.4 to 8.4
Cg 30 to	60 in	silty clay loam	moderately slow	4.49 to 5.98 in	7.4 to 8.4

Calco, occasionally flooded

Extent: 35 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): flats Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 86

Parent material: alluvium Kw factor (surface layer) .28

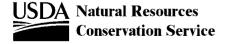
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: occasional Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil prof	ile: Texture	Permeability	Available water capacity	рН
Ap,A1 0 to 16 ir	silty clay loam	moderate	2.91 to 3.55 in	7.4 to 8.4
A 16 to 32 ir	silty clay loam	moderate	2.83 to 3.46 in	7.4 to 8.4
Ba 32 to 60 in	silty clay loam	moderate	4.47 to 5.31 in	7.4 to 8.4



Lyon County, Minnesota

1814--Oldham silty clay

Oldham

Extent: 90 percent of the unit Landform(s): depressions Slope gradient: 0 to 1 percent Parent material: lacustrine deposits Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4 Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 3w

Hydric soil: yes Hydrologic group: C/D

Potential for frost action: high

Representative :	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A () to 17 in	silty clay	moderately slow	2.20 to 3.22 in	7.4 to 7.8
Bg 17	7 to 33 in	silty clay	moderately slow	2.26 to 3.23 in	7.4 to 8.4
Cg 33	3 to 60 in	clay loam	moderately slow	3.75 to 5.35 in	7.4 to 8.4

Lyon County, Minnesota

GP--Pits, gravel-Udipsamments complex

Pits, gravel

Extent: 50 to 100 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines, outwash plains, stream terraces

Slope gradient: 0 to 50 percent

Parent material: sandy and gravelly outwash Restrictive feature(s): greater than 60 inches

Flooding: Ponding:

Drainage class:

Hydrologic group:

Hydric soil:

Potential for frost action:

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Land capability, nonirrigated

Kw factor (surface layer)

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Udipsamments

Extent: 15 to 30 percent of the unit

Landform(s): moraines, outwash plains, stream terraces

Slope gradient: 0 to 6 percent Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: Ponding:

Drainage class: excessively drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) Land capability, nonirrigated

Hydric soil:

Hydrologic group: A

Potential for frost action:

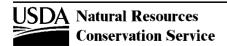
Representative soil profile:

Texture

Permeability

Available water capacity

PH



Lyon County, Minnesota

J1A--Parnell silty clay loam, depressional, 0 to 1 percent slopes

Parnell, depressional

Extent: 85 to 95 percent of the unit

Landform(s): depressions on lake plains, depressions on

moraines, depressions on till plains

Slope gradient: 0 to 1 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38
Kw factor (surface layer) .37
Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
A1,A2	0 to 22 in	silty clay loam	moderately slow	3.97 to 4.85 in	6.1 to 7.3
Btg 2	22 to 55 in	silty clay	slow	4.30 to 5.29 in	6.1 to 7.3
BCg 5	55 to 80 in	silty clay loam	slow	3.97 to 4.71 in	6.6 to 8.4

Lyon County, Minnesota

J2A--La Prairie loam, 0 to 2 percent slopes, occasionally flooded

La Prairie, occasionally flooded

Extent: 80 to 95 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): flats on flood plains

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: alluvium

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 1

Flooding: occasional

Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representative	soil profile:	Texture	Permeability	capacity	pН
Ap	0 to 9 in	loam	moderate	1.81 to 1.99 in	6.6 to 8.4
A	9 to 38 in	loam	moderate	5.83 to 6.41 in	6.6 to 8.4
Bw 3	88 to 50 in	loam	moderate	2.01 to 2.24 in	6.6 to 8.4
C 5	60 to 60 in	loam	moderate	1.67 to 1.87 in	7.4 to 8.4

J7A--Sverdrup sandy loam, 0 to 2 percent slopes

Sverdrup

Extent: 70 to 90 percent of the unit

Landform(s): flats on outwash plains

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 3

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .20

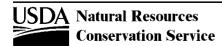
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: low

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 12 in	sandy loam	moderately rapid	1.54 to 1.77 in	6.1 to 7.3
Bw	12 to 26 in	sandy loam	moderately rapid	1.70 to 1.98 in	6.1 to 7.3
2C	26 to 80 in	sand	rapid	2.70 to 3.78 in	7.4 to 8.4



Available water

Lyon County, Minnesota

J7B--Sverdrup sandy loam, 2 to 6 percent slopes

Sverdrup

Extent: 80 to 90 percent of the unit Soil loss tolerance (T factor): 4 Landform(s): hills on outwash plains Wind erodibility group (WEG): 3 Wind erodibility index (WEI): 86 Slope gradient: 2 to 6 percent Parent material: outwash Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 3e Flooding: none Hydric soil: no

Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	pН
Ap,A 0 to 12 in	sandy loam	moderately rapid	1.54 to 1.77 in	6.1 to 7.3
Bw 12 to 26 in	sandy loam	moderately rapid	1.70 to 1.98 in	6.1 to 7.3
2C 26 to 80 in	sand	rapid	2.70 to 3.78 in	7.4 to 8.4

J11A--Vallers clay loam, 0 to 2 percent slopes

Vallers

Extent: 75 to 95 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): rims on depressions on till plains, flats on till

plains, drainageways on till plains

Slope gradient: 0 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: poorly drained

Wind erodibility group (WEG): 4L

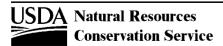
Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 14 in	clay loam	moderate	2.41 to 2.69 in	7.4 to 8.4
Bkg 1	14 to 38 in	loam	moderate	3.60 to 4.56 in	7.4 to 8.4
Ca 3	38 to 80 in	loam	moderately slow	6.26 to 7.93 in	7.4 to 8.4



Lyon County, Minnesota

J12A--Marysland loam, 0 to 2 percent slopes

Marysland

Extent: 75 to 95 percent of the unit

Soil loss tolerance (T factor): 4

Landform(s): rims on depressions on outwash plains, flats on

outwash plains, drainageways on outwash plains

Slope gradient: 0 to 2 percent Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: poorly drained

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86 Kw factor (surface layer) .24 Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile	e: Texture	Permeability	Available water capacity	рН
Ap 0 to 9 in	loam	moderate	1.54 to 1.99 in	7.4 to 8.4
Ak 9 to 12 in	loam	moderate	0.47 to 0.61 in	7.4 to 8.4
Bkg 12 to 27 in	loam	moderate	2.30 to 2.92 in	7.4 to 8.4
2Cg 27 to 80 in	gravelly sand	rapid	1.06 to 3.69 in	7.4 to 8.4

Lyon County, Minnesota

J17A--Quam silty clay loam, depressional, 0 to 1 percent slopes

Quam, depressional

Extent: 85 to 95 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): depressions on lake plains, depressions on moraines, depressions on till plains

Wind erodibility group (WEG): 7

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 38

Parent material: lacustrine deposits

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative s	soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0	to 10 in	silty clay loam	moderately slow	1.77 to 2.17 in	6.6 to 7.3
A1,A2 10	to 45 in	silty clay loam	moderately slow	5.61 to 6.66 in	6.6 to 7.3
Ca 45	to 80 in	silty clay loam	moderately slow	5.61 to 6.66 in	6.6 to 7.8

J18A--Malachy sandy loam, 1 to 3 percent slopes

Malachy

Extent: 75 to 95 percent of the unit

Soil loss tolerance (T factor): 4

Landform(s): knolls on outwash plains

Wind erodibility group (WEG): 4L

Slope gradient: 1 to 3 percent Wind erodibility index (WEI): 86

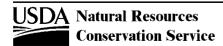
Parent material: outwash Kw factor (surface layer) .17

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 2s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: high

Representative soil pro	file: Texture	Permeability	Available water capacity	рН
Ap,A 0 to 17 i	n sandy loam	moderately rapid	2.20 to 3.05 in	7.4 to 8.4
Bk 17 to 28 i	n sandy loam	moderately rapid	1.32 to 2.09 in	7.4 to 8.4
2C 28 to 80 ii	n loamy sand	rapid	1.04 to 5.20 in	7.4 to 8.4



Lyon County, Minnesota

J23A--Lamoure silty clay loam, 0 to 2 percent slopes, occasionally flooded

Lamoure, occasionally flooded

Extent: 75 to 95 percent of the unit

Landform(s): flats on flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: occasional Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
A1,A2 0 to 27 in	silty clay loam	moderate	4.89 to 5.98 in	7.4 to 8.4
Cg1 27 to 34 in	silty clay loam	moderate	1.07 to 1.27 in	7.4 to 8.4
Cg2 34 to 60 in	silt loam	moderate	5.20 to 5.72 in	7.4 to 8.4

J25A--Rauville silty clay loam, 0 to 1 percent slopes, frequently flooded

Rauville, frequently flooded

Extent: 80 to 95 percent of the unit

Landform(s): flats on flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 86

Parent material: alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 6w

Flooding: frequent

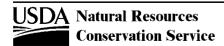
Hydric soil: yes

Ponding: none

Hydrologic group: D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile	Texture	Permeability	Available water capacity	рН
A1,A2 0 to 27 in	silty clay loam	moderate	4.89 to 5.98 in	7.4 to 8.4
Cg 27 to 45 in	silty clay loam	moderate	2.83 to 3.37 in	7.4 to 8.4
2Cg 45 to 60 in	stratified gravelly sand to clay	moderately rapid	1.20 to 2.24 in	7.4 to 8.4



Lyon County, Minnesota

J26B--Darnen loam, 2 to 6 percent slopes

Darnen

Extent: 85 to 95 percent of the unit

Landform(s): hills on moraines

Slope gradient: 2 to 6 percent

Parent material: colluvium

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 2e

Hydric soil: no Hydrologic group: B

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 24 in	loam	moderate	4.80 to 5.28 in	6.6 to 7.3
AB,Bw1	24 to 34 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw2	34 to 80 in	loam	moderate	7.83 to 8.75 in	6.6 to 8.4

Lyon County, Minnesota

J31B--Arvilla-Sandberg complex, 2 to 6 percent slopes

Arvilla

Extent: 35 to 55 percent of the unit

Landform(s): hills on outwash plains

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3e

Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: B

Drainage class: somewhat excessively drained Potential for frost action: low

Representative	soil profile:	Texture	Permeability	capacity	рН
Ap 0) to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw 9	to 14 in	sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk 14	to 48 in	gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C 48	3 to 80 in	gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4

Sandberg

Extent: 30 to 50 percent of the unit

Landform(s): hills on outwash plains

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .15

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4s

Flooding: none

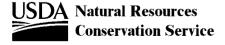
Hydric soil: no

Ponding: none

Hydrologic group: A

Drainage class: excessively drained Potential for frost action: low

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap	0 to 8 in	gravelly sandy loam	very rapid	0.39 to 1.02 in	6.1 to 7.8
Bk	8 to 32 in	very gravelly sand	very rapid	0.48 to 1.44 in	7.4 to 8.4
C 3	32 to 80 in	gravelly sand	very rapid	0.96 to 2.88 in	7.4 to 8.4



Available weter

Lyon County, Minnesota

J32A--Bigstone silty clay loam, depressional, 0 to 1 percent slopes

Bigstone, depressional

Extent: 70 to 90 percent of the unit

Landform(s): depressions on lake plains, depressions on

moraines, depressions on till plains

Slope gradient: 0 to 1 percent Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none
Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

L Available water

Representativ	e soil profile:	Texture	Permeability	capacity	рН
Ap	0 to 10 in	silty clay loam	moderate	1.77 to 2.17 in	7.4 to 8.4
A	10 to 30 in	silty clay loam	moderate	3.61 to 4.42 in	7.4 to 8.4
Cg	30 to 80 in	loam	moderate	7.50 to 9.50 in	7.4 to 8.4

Lyon County, Minnesota

J42C--Sandberg-Arvilla complex, 6 to 12 percent slopes

Sandberg

Extent: 50 to 70 percent of the unit

Landform(s): hills on outwash plains

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 8

Slope gradient: 6 to 12 percent

Wind erodibility index (WEI): 0

Parent material: outwash

Kw factor (surface layer) .15

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 6s

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: A

Drainage class: excessively drained Potential for frost action: low

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap	0 to 10 in	gravelly sandy loam	very rapid	0.49 to 1.28 in	6.1 to 7.8
Bk '	10 to 22 in	gravelly sand	very rapid	0.24 to 0.73 in	7.4 to 8.4
C 2	22 to 80 in	gravelly sand	very rapid	1.16 to 3.47 in	7.4 to 8.4

Arvilla

Extent: 25 to 35 percent of the unit

Landform(s): hills on outwash plains

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Slope gradient: 6 to 12 percent

Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .20

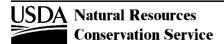
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: somewhat excessively drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw 9 to 14 in	sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk 14 to 48 in	gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C 48 to 80 in	gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4



Lyon County, Minnesota

J45F--Sandberg sandy loam, 12 to 40 percent slopes

Sandberg

Extent: 70 to 90 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 12 to 40 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .15
Land capability, nonirrigated 7e

Hydric soil: no Hydrologic group: A

Potential for frost action: low

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
A1,A2	0 to 12 in	sandy loam	very rapid	1.54 to 1.77 in	6.1 to 7.8
Bk	12 to 28 in	gravelly sand	very rapid	0.32 to 0.97 in	7.4 to 8.4
C	28 to 80 in	gravelly sand	very rapid	1.04 to 3.12 in	7.4 to 8.4

Lyon County, Minnesota

J48A--Bigstone and Parnell soils, ponded, 0 to 1 percent slopes

Bigstone, ponded

Extent: 0 to 85 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): depressions on moraines, depressions on lake

Wind erodibility group (WEG): 8

Landform(s): depressions on moraines, depressions on lake plains, depressions on till plains

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 0

Parent material: lacustrine deposits Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 8w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: D

Drainage class: very poorly drained Potential for frost action: high

Representative soil	l profile:	Texture	Permeability	Available water capacity	рН
A1 0 to	18 in	silty clay loam	moderate	3.26 to 3.98 in	7.4 to 8.4
A2 18 to	48 in	silty clay loam	moderate	5.39 to 6.58 in	7.4 to 8.4
2Cg 48 to	80 in	loam	moderate	4.78 to 6.06 in	7.4 to 8.4

Parnell, ponded

Extent: 0 to 85 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): depressions on moraines, depressions on lake Wind erodibility group (WEG): 8 plains, depressions on till plains

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 0

Parent material: till Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 8w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: D

Drainage class: very poorly drained Potential for frost action: high

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
A1,A2	0 to 22 in	silty clay loam	moderately slow	3.97 to 4.85 in	6.1 to 7.3
Btg 2	22 to 55 in	silty clay	slow	4.30 to 5.29 in	6.1 to 7.3
BCg 5	55 to 80 in	silty clay loam	slow	3.97 to 4.71 in	6.6 to 8.4



Lyon County, Minnesota

J57A--Balaton loam, 1 to 3 percent slopes

Balaton

Extent: 75 to 95 percent of the unitSoil loss tolerance (T factor): 5Landform(s): knolls on till plainsWind erodibility group (WEG): 4LSlope gradient: 1 to 3 percentWind erodibility index (WEI): 86Parent material: tillKw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: high

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 13 in	loam	moderate	2.60 to 2.86 in	7.4 to 8.4
ABk,Bk 1	3 to 31 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C 3	11 to 80 in	loam	moderate	7.32 to 9.28 in	7.4 to 8.4

J75A--Fordville loam, 0 to 2 percent slopes

Fordville

Extent: 80 to 90 percent of the unit

Landform(s): flats on outwash plains

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: outwash

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2s

Flooding: none

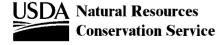
Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: well drained Potential for frost action: low

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap	0 to 6 in	loam	moderate	1.18 to 1.30 in	6.1 to 7.3
Bw	6 to 24 in	loam	moderate	3.08 to 3.44 in	6.1 to 7.3
2C 2	24 to 80 in	gravelly loamy sand	very rapid	2.24 to 3.35 in	7.4 to 8.4



Lyon County, Minnesota

J75B--Fordville loam, 2 to 6 percent slopes

Fordville

Extent: 80 to 90 percent of the unit Soil loss tolerance (T factor): 3 Landform(s): hills on outwash plains Wind erodibility group (WEG): 6 Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 48 Parent material: outwash Kw factor (surface layer) .24 Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 2e

Flooding: none Hydric soil: no Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: low

Representative soil profile	: Texture	Permeability	Available water capacity	рН
Ap 0 to 6 in	loam	moderate	1.18 to 1.30 in	6.1 to 7.3
Bw 6 to 24 in	loam	moderate	3.08 to 3.44 in	6.1 to 7.3
2C 24 to 80 in	gravelly loamy sand	very rapid	2.24 to 3.35 in	7.4 to 8.4

J77A--Lamoure silty clay loam, 0 to 2 percent slopes, frequently flooded

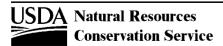
Lamoure, frequently flooded

Extent: 75 to 95 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): flats on flood plains Wind erodibility group (WEG): 4L Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Parent material: alluvium Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 5w

Flooding: frequent Hydric soil: yes Ponding: none

Drainage class: poorly drained Potential for frost action: high

Representative soil pro	file: Texture	Permeability	Available water capacity	рН
A1,A2 0 to 27 i	n silty clay loam	moderate	4.89 to 5.98 in	7.4 to 8.4
Cg1 27 to 34 i	n silty clay loam	moderate	1.07 to 1.27 in	7.4 to 8.4
Cg2 34 to 60 i	n silt loam	moderate	5.20 to 5.72 in	7.4 to 8.4



Hydrologic group: B/D

Lyon County, Minnesota

J80A--Lamoure-La Prairie complex, channeled, 0 to 2 percent slopes, frequently flooded

Lamoure, channeled, frequently flooded

Extent: 40 to 60 percent of the unit

Landform(s): flats on flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 5w

Flooding: frequent

Hydric soil: yes

Ponding: none

Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
A1,A2	0 to 27 in	silty clay loam	moderate	4.89 to 5.98 in	7.4 to 8.4
Cg1	27 to 34 in	silty clay loam	moderate	1.07 to 1.27 in	7.4 to 8.4
Cg2	34 to 60 in	silt loam	moderate	5.20 to 5.72 in	7.4 to 8.4

La Prairie, channeled, frequently flooded

Extent: 30 to 50 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): flats on flood plains

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: alluvium

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 5w

Flooding: frequent

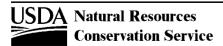
Hydric soil: yes

Ponding: none

Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representativ	ve soil profile:	Textu	ıre	Permeability	Available water capacity	рН
Ар	0 to 9 in	loam		moderate	1.81 to 1.99 in	6.6 to 8.4
A	9 to 38 in	loam		moderate	5.83 to 6.41 in	6.6 to 8.4
Bw	38 to 50 in	loam		moderate	2.01 to 2.24 in	6.6 to 8.4
C	50 to 60 in	loam		moderate	1.67 to 1.87 in	7.4 to 8.4



Lyon County, Minnesota

J95E--Buse, stony-Wilno complex, 18 to 25 percent slopes

Buse, stony

Extent: 65 to 85 percent of the unit Landform(s): hills on moraines Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 6e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Available weter

Representative	soil profile:	Texture	Permeability	capacity	рН
A	0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk	8 to 37 in	loam	moderate	4.37 to 5.54 in	7.4 to 8.4
C 3	37 to 80 in	loam	moderately slow	6.44 to 8.15 in	7.4 to 8.4

Wilno

Extent: 10 to 20 percent of the unit Landform(s): hills on moraines Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 6e
Hydric soil: no

Hydrologic group: B

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
A	0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB	42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2	52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3



Lyon County, Minnesota

J95F--Buse, stony-Wilno complex, 25 to 40 percent slopes

Buse, stony

Extent: 65 to 85 percent of the unit Landform(s): hills on moraines Slope gradient: 25 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 7e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Α	0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk	8 to 37 in	loam	moderate	4.37 to 5.54 in	7.4 to 8.4
C 3	7 to 80 in	loam	moderately slow	6.44 to 8.15 in	7.4 to 8.4

Wilno

Extent: 10 to 20 percent of the unit

Landform(s): hills on moraines

Slope gradient: 25 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

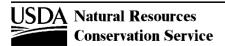
Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 7e
Hydric soil: no

Hydrologic group: B

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
A	0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB	42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2	52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3



Lyon County, Minnesota

J96C2--Barnes-Buse complex, 6 to 12 percent slopes, moderately eroded

Barnes, moderately eroded

Extent: 40 to 60 percent of the unit Landform(s): hills on moraines Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 3e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Representative	soil prof	ile:	Texture	Permeability	Available water capacity	рН
Ap	0 to 7 in	loam		moderate	1.42 to 1.56 in	6.1 to 7.3
Bw1,Bw2	7 to 19 in	loam		moderate	2.01 to 2.24 in	6.1 to 7.3
Bk 1	19 to 37 in	loam		moderate	2.72 to 3.44 in	7.4 to 8.4
C 3	37 to 60 in	loam		moderately slow	3.43 to 4.34 in	7.4 to 8.4

Buse, moderately eroded

Extent: 20 to 40 percent of the unit Landform(s): hills on moraines Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

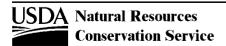
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86
Kw factor (surface layer) .28
Land capability, nonirrigated 3e

Hydric soil: no Hydrologic group: B

Representative soil profile:		Texture	Permeability	Available water capacity	рН
Ар	0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2	8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C	40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4



Lyon County, Minnesota

J100D2--Buse, eroded-Wilno complex, 12 to 18 percent slopes

Buse, moderately eroded

Extent: 60 to 80 percent of the unit Landform(s): hills on moraines Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 4e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ар	0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2	8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C 4	40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

Wilno

Extent: 10 to 20 percent of the unit

Landform(s): hills on moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

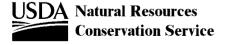
Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 4e

Hydric soil: no Hydrologic group: B

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB	42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2	52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3



Lyon County, Minnesota

J101B--Hokans-Svea complex, 1 to 4 percent slopes

Hokans

Extent: 60 to 80 percent of the unit Landform(s): hills on moraines Slope gradient: 1 to 4 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 2e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Representative s	oil profile:	Textu	ıre	Permeability	Available water capacity	рН
Ap,A 0	to 15 in	loam		moderate	2.99 to 3.29 in	6.1 to 7.3
Bw 15	to 22 in	loam		moderate	1.20 to 1.35 in	6.1 to 7.3
Bk 22	to 40 in	loam		moderate	2.72 to 3.44 in	7.4 to 8.4
C 40	to 80 in	loam		moderately slow	5.96 to 7.56 in	7.4 to 8.4

Svea

Extent: 15 to 25 percent of the unit

Landform(s): swales on moraines, flats on moraines

Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

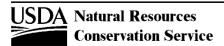
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 1

Hydric soil: no Hydrologic group: B

Representative soil	profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to	10 in lo	oam	moderate	1.97 to 2.17 in	6.1 to 7.3
Bw 10 to 1	21 in lo	oam	moderate	1.87 to 2.09 in	6.6 to 7.3
Bk 21 to	36 in c	clay loam	moderate	2.24 to 2.84 in	7.4 to 8.4
C 36 to	60 in lo	oam	moderately slow	3.60 to 4.56 in	7.4 to 8.4



Lyon County, Minnesota

J104A--Svea loam, 1 to 3 percent slopes

Svea

Extent: 65 to 85 percent of the unit

Landform(s): swales on moraines, flats on moraines

Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 10 in	loam	moderate	1.97 to 2.17 in	6.1 to 7.3
Bw 10	0 to 21 in	loam	moderate	1.87 to 2.09 in	6.6 to 7.3
Bk 2	1 to 36 in	clay loam	moderate	2.24 to 2.84 in	7.4 to 8.4
C 30	6 to 60 in	loam	moderately slow	3.60 to 4.56 in	7.4 to 8.4



Lyon County, Minnesota

J105A--Arvilla sandy loam, 0 to 2 percent slopes

Arvilla

Extent: 75 to 95 percent of the unit Landform(s): flats on outwash plains Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .20
Land capability, nonirrigated 3s

Hydric soil: no Hydrologic group: B

Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw 9 to 14 in	sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk 14 to 48 in	gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C 48 to 80 in	gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4

Lyon County, Minnesota

J106B--Barnes-Buse-Svea complex, 1 to 6 percent slopes

Barnes, occasional saturation

Extent: 50 to 70 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): hills on moraines, hills on till plains

Wind erodibility group (WEG): 6

Slope gradient: 3 to 6 percent Wind erodibility index (WEI): 48

Parent material: till Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 11 in	loam	moderate	2.20 to 2.43 in	6.1 to 7.3
Bw 11 to 26 in	loam	moderate	2.54 to 2.84 in	6.1 to 7.3
Bk 26 to 44 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C 44 to 80 in	loam	moderately slow	5.37 to 6.81 in	7.4 to 8.4

Buse

Extent: 10 to 20 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): hills on moraines, hills on till plains Wind erodibility group (WEG): 4L

Slope gradient: 3 to 6 percent Wind erodibility index (WEI): 86

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

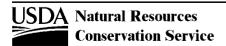
Land capability, nonirrigated 2e

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:		Texture	Permeability	Available water capacity	рН
Ар	0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2	8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C	40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4



Lyon County, Minnesota

J106B--Barnes-Buse-Svea complex, 1 to 6 percent slopes

Svea

Extent: 10 to 20 percent of the unit

Landform(s): swales on moraines, flats on moraines, swales

on till plains, flats on till plains

Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 1

Hydric soil: no Hydrologic group: B

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 10 in	loam	moderate	1.97 to 2.17 in	6.1 to 7.3
Bw 10 to 21 in	loam	moderate	1.87 to 2.09 in	6.6 to 7.3
Bk 21 to 36 in	clay loam	moderate	2.24 to 2.84 in	7.4 to 8.4
C 36 to 60 in	loam	moderately slow	3.60 to 4.56 in	7.4 to 8.4

Lyon County, Minnesota

J107A--Lakepark-Roliss-Parnell, depressional, complex, 0 to 3 percent slopes

Lakepark

Extent: 30 to 40 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): drainageways on moraines

Wind erodibility group (WEG): 6

Slope gradient: 0 to 3 percent Wind erodibility index (WEI): 48

Parent material: till

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: none

Hydric soil: yes

Ponding: none

Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile	e: Te	exture	Permeability	Available water capacity	рН
Ap 0 to 8 in	loam		moderate	1.57 to 1.73 in	6.1 to 7.3
A 8 to 27 in	loam		moderate	3.86 to 4.24 in	6.1 to 7.3
Bg 27 to 41 in	loam		moderate	2.34 to 2.62 in	6.6 to 7.3
Cg 41 to 80 in	loam		moderately slow	5.85 to 7.41 in	7.4 to 8.4

Roliss

Extent: 20 to 30 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): drainageways on moraines, flats on moraines, Wind erodibility group (WEG): 4L

rims on moraines

Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 86

Parent material: till Kw factor (surface layer) .32

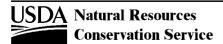
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative	soil profile:		Texture	Permeability	Available water capacity	рН
Ap	0 to 9 in	loam		moderate	1.36 to 1.72 in	7.4 to 8.4
A	9 to 14 in	clay loam		moderate	0.87 to 0.97 in	7.4 to 8.4
Bg 1	4 to 20 in	clay loam		moderate	1.00 to 1.12 in	7.4 to 8.4
Cg 2	0 to 80 in	loam		moderately slow	8.98 to 11.37 in	7.4 to 8.4



Lyon County, Minnesota

J107A--Lakepark-Roliss-Parnell, depressional, complex, 0 to 3 percent slopes

Parnell, depressional

Extent: 10 to 20 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): depressions on moraines

Wind erodibility group (WEG): 7

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 38

Parent material: till

Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3w
Flooding: none

Hydric soil: yes

Ponding: frequent

Hydrologic group: C/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:		Texture	Permeability	Available water capacity	pН
A1,A2 0 to 2	22 in sil	Ity clay loam	moderately slow	3.97 to 4.85 in	6.1 to 7.3
Btg 22 to 5	55 in sil	Ity clay	slow	4.30 to 5.29 in	6.1 to 7.3
BCg 55 to 8	30 in sil	Ity clay loam	slow	3.97 to 4.71 in	6.6 to 8.4

J195B--Poinsett silty clay loam, 2 to 6 percent slopes

Poinsett, occasional saturation

Extent: 70 to 90 percent of the unit

Landform(s): hills on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 38

Parent material: lacustrine deposits

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2e

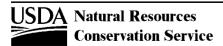
Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 8 in	silty clay loam	moderate	1.42 to 1.73 in	6.1 to 7.3
Bw 8 to 23 in	silty clay loam	moderate	2.39 to 2.84 in	6.1 to 7.3
Bk 23 to 62 in	silty clay loam	moderate	6.24 to 7.41 in	7.4 to 8.4
2C 62 to 80 in	clay loam	moderately slow	2.54 to 3.26 in	7.4 to 8.4



Lyon County, Minnesota

J198C2--Rusklyn-Poinsett complex, 6 to 12 percent slopes, moderately eroded

Rusklyn, moderately eroded

Extent: 40 to 50 percent of the unit

Landform(s): hills on lake plains

Slope gradient: 6 to 12 percent

Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 3e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Representative soil profil	e: Texture	Permeability	Available water capacity	рН
Ap 0 to 9 in	silty clay loam	moderate	1.63 to 1.99 in	7.4 to 8.4
Bk 9 to 28 in	silty clay loam	moderate	3.02 to 3.59 in	7.4 to 8.4
C1 28 to 53 in	silty clay loam	moderate	4.03 to 4.79 in	7.4 to 8.4
2C2 53 to 80 in	clay loam	moderately slow	3.75 to 4.82 in	7.4 to 8.4

Poinsett, moderately eroded

Extent:35 to 45 percent of the unitSoil loss tolerance (T factor):5Landform(s):hills on lake plainsWind erodibility group (WEG):7Slope gradient:6 to 12 percentWind erodibility index (WEI):38Parent material:lacustrine depositsKw factor (surface layer).28

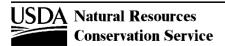
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profil	le: Texture	Permeability	Available water capacity	рН
Ap 0 to 8 in	silty clay loam	moderate	1.42 to 1.73 in	6.1 to 7.3
Bw 8 to 23 in	silty clay loam	moderate	2.39 to 2.84 in	6.1 to 7.3
Bk 23 to 62 in	silty clay loam	moderate	6.24 to 7.41 in	7.4 to 8.4
2C 62 to 80 in	clay loam	moderately slow	2.54 to 3.26 in	7.4 to 8.4



Lyon County, Minnesota

J199A--Fulda silty clay, 0 to 2 percent slopes

Fulda

Extent: 75 to 95 percent of the unit

Landform(s): flats on moraines, drainageways on moraines

Slope gradient: 0 to 2 percent Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 7 Wind erodibility index (WEI): 38

Kw factor (surface layer) .28 Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 13 in	silty clay	slow	1.69 to 2.21 in	6.1 to 7.3
Bg 13 to 33 in	silty clay	slow	2.01 to 3.81 in	6.6 to 7.3
Bkg 33 to 40 in	silty clay	slow	0.71 to 1.35 in	7.4 to 8.4
Cg 40 to 60 in	silty clay	slow	1.97 to 3.74 in	7.4 to 8.4

Lyon County, Minnesota

J227D2--Buse, moderately eroded-Sandberg complex, 12 to 18 percent slopes

Buse, moderately eroded

Extent: 40 to 60 percent of the unit Landform(s): hills on moraines Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 4e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:		Texture	Permeability	Available water capacity	рН
Ap	0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2	8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C	10 to 60 in	loam	moderately slow	2 95 to 3 74 in	7 / to 8 /

Sandberg

Extent:20 to 40 percent of the unitSoil loss tolerance (T factor):3Landform(s):hills on morainesWind erodibility group (WEG):3Slope gradient:12 to 18 percentWind erodibility index (WEI):86Parent material:outwashKw factor (surface layer).15

Restrictive feature(s): greater than 60 inches

Land capab

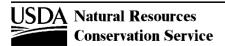
Flooding: none Ponding: none

Drainage class: excessively drained

Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .15
Land capability, nonirrigated 7e
Hydric soil: no
Hydrologic group: A

Potential for frost action: low

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
A1,A2	0 to 12 in	sandy loam	very rapid	1.54 to 1.77 in	6.1 to 7.8
Bk	12 to 28 in	gravelly sand	very rapid	0.32 to 0.97 in	7.4 to 8.4
C 2	28 to 80 in	gravelly sand	very rapid	1.04 to 3.12 in	7.4 to 8.4



Lyon County, Minnesota

J227F--Buse-Sandberg complex, 18 to 40 percent slopes

Buse

Extent: 40 to 60 percent of the unit Landform(s): hills on moraines Slope gradient: 18 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 7e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Representative so	il profile:	Texture	Permeability	Available water capacity	рН
A 0 to	8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk 8 to	37 in	loam	moderate	4.37 to 5.54 in	7.4 to 8.4
C 37 to	80 in	loam	moderately slow	6.44 to 8.15 in	7.4 to 8.4

Sandberg

Sail loss teleranes (T feeter): 2 Extent: 20 to 40 percent of the unit Landform(s): hills on moraines Slope gradient: 18 to 40 percent Parent material: outwash

Restrictive feature(s): greater than 60 inches

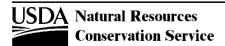
Flooding: none Ponding: none

Drainage class: excessively drained

Soil loss tolerance (Tilactor): 3
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .15
Land capability, nonirrigated 7e
Hydric soil: no
Hydrologic group: A

Potential for frost action: low

Representative soil profile:		Texture	Permeability	Available water capacity	рН
A1,A2	0 to 12 in	sandy loam	very rapid	1.54 to 1.77 in	6.1 to 7.8
Bk	12 to 28 in	gravelly sand	very rapid	0.32 to 0.97 in	7.4 to 8.4
C	28 to 80 in	gravelly sand	very rapid	1.04 to 3.12 in	7.4 to 8.4



Lyon County, Minnesota

J232B--Barnes-Buse-Arvilla complex, 2 to 6 percent slopes

Barnes, occasional saturation

Extent: 30 to 40 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): hills on moraines, hills on till plains

Wind erodibility group (WEG): 6

Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 48

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2e

Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:			Texture	Permeability	Available water capacity	рН
Ap,A	0 to 11 in	loam		moderate	2.20 to 2.43 in	6.1 to 7.3
Bw 1	11 to 26 in	loam		moderate	2.54 to 2.84 in	6.1 to 7.3
Bk 2	26 to 44 in	loam		moderate	2.72 to 3.44 in	7.4 to 8.4
C 4	14 to 80 in	loam		moderately slow	5.37 to 6.81 in	7.4 to 8.4

Buse

Extent: 25 to 35 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): hills on moraines, hills on till plains Wind erodibility group (WEG): 4L

Slope gradient: 3 to 6 percent Wind erodibility index (WEI): 86

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2e

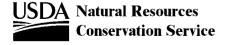
Flooding: none

Hydric soil: no

Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:		Texture	Permeability	Available water capacity	рН
Ар	0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2	8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C	40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4



Lyon County, Minnesota

J232B--Barnes-Buse-Arvilla complex, 2 to 6 percent slopes

Arvilla

Extent: 20 to 30 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3e

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: somewhat excessively drained Potential for frost action: low

Representative soil profile:		Texture	Permeability	Available water capacity	pН
Ap	0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw	9 to 14 in	sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk 1	4 to 48 in	gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C 4	8 to 80 in	gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4



Lyon County, Minnesota

J235C2--Buse-Barnes-Arvilla complex, 6 to 12 percent slopes, moderately eroded

Buse, moderately eroded

Extent: 30 to 40 percent of the unit Landform(s): hills on moraines Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 3e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Available weter

Representative soil profile:		Texture	Permeability	capacity	рН
Ap	0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2	8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C	40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

Barnes, moderately eroded

Extent: 25 to 35 percent of the unit Landform(s): hills on moraines Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

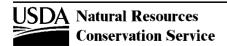
Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 3e

Hydric soil: no Hydrologic group: B

Representativ	e soil profile:		Texture	Permeability	Available water capacity	рН
Ap	0 to 7 in	loam		moderate	1.42 to 1.56 in	6.1 to 7.3
Bw1,Bw2	7 to 19 in	loam		moderate	2.01 to 2.24 in	6.1 to 7.3
Bk	19 to 37 in	loam		moderate	2.72 to 3.44 in	7.4 to 8.4
C	37 to 60 in	loam		moderately slow	3.43 to 4.34 in	7.4 to 8.4



Lyon County, Minnesota

J235C2--Buse-Barnes-Arvilla complex, 6 to 12 percent slopes, moderately eroded

Arvilla

Extent: 20 to 30 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Slope gradient: 6 to 12 percent

Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: somewhat excessively drained Potential for frost action: low

Representative soil profile	: Texture	Permeability	Available water capacity	рН
Ap 0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw 9 to 14 in	sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk 14 to 48 in	gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C 48 to 80 in	gravelly sand	verv rapid	0.64 to 1.59 in	7.4 to 8.4



Lyon County, Minnesota

J236A--Highpoint Lake silty clay, 0 to 2 percent slopes

Highpoint Lake

Extent: 80 to 95 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): flats on moraines

Wind erodibility group (WEG): 4

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: lacustrine deposits

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: C

Drainage class: moderately well drained Potential for frost action: high

Representative soil pro	file: Texture	Permeability	Available water capacity	pН
Ap,A 0 to 18 i	n silty clay	slow	2.35 to 3.08 in	6.1 to 7.3
Bw 18 to 25 i	n silty clay	slow	0.71 to 1.35 in	6.6 to 7.3
Bk 25 to 53 i	n silty clay loam	slow	2.80 to 5.31 in	7.4 to 8.4
C 53 to 80 i	n silty clay loam	slow	2.68 to 5.09 in	7.4 to 8.4



Lyon County, Minnesota

J237A--Brensall-Tress complex, 0 to 2 percent slopes

Brensall

Extent: 60 to 80 percent of the unit Landform(s): flats on till plains Slope gradient: 1 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48

Kw factor (surface layer) .24 Land capability, nonirrigated 1

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Available water

Representative soil profile	: Texture	Permeability	capacity	рН
Ap 0 to 8 in	clay loam	moderately slow	1.34 to 1.50 in	6.1 to 7.3
Bt 8 to 15 in	clay loam	moderately slow	1.06 to 1.35 in	6.6 to 7.3
Bk 15 to 48 in	clay loam	moderately slow	4.63 to 5.29 in	7.4 to 8.4
BC 48 to 80 in	clay loam	moderately slow	4.46 to 5.10 in	7.4 to 8.4

Tress

Extent: 15 to 25 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): swales on till plains Slope gradient: 0 to 2 percent Parent material: till

Restrictive feature(s): greater than 60 inches

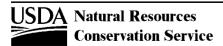
Flooding: none Ponding: none

Drainage class: somewhat poorly drained

Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48 Kw factor (surface layer) .24 Land capability, nonirrigated 1 Hydric soil: no

Hydrologic group: B

Representative soil profi	le: Texture	Permeability	Available water capacity	рН
Ap,A 0 to 20 in	clay loam	moderately slow	3.41 to 3.81 in	6.1 to 7.3
Bt 20 to 36 in	clay loam	moderately slow	2.36 to 2.99 in	6.6 to 7.3
Bk 36 to 48 in	clay loam	moderately slow	1.71 to 1.95 in	7.4 to 8.4
BC 48 to 80 in	clay loam	moderately slow	4.46 to 5.10 in	7.4 to 8.4



Lyon County, Minnesota

J237B--Brensall-Tress complex 1 to 4 percent slopes

Brensall

Extent: 50 to 70 percent of the unit

Landform(s): flats on till plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 1 to 4 percent

Wind erodibility index (WEI): 48

Parent material: till

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2e

Flooding: none Hydric soil: no Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representative soil	profile:		Texture	Permeability	capacity	pН
Ap 0 to	8 in	clay loam		moderately slow	1.34 to 1.50 in	6.1 to 7.3
Bt 8 to	15 in	clay loam		moderately slow	1.06 to 1.35 in	6.6 to 7.3
Bk 15 to	48 in	clay loam		moderately slow	4.63 to 5.29 in	7.4 to 8.4
BC 48 to	80 in	clay loam		moderately slow	4.46 to 5.10 in	7.4 to 8.4

Tress

Extent: 20 to 30 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): swales on till plains

Wind erodibility group (WEG): 6

Slope gradient: 1 to 2 percent

Wind erodibility index (WEI): 48

Parent material: till

Kw factor (surface layer) .24

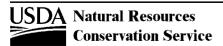
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 1

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: somewhat poorly drained Potential for frost action: moderate

Representative soil profile:			Texture	Permeability	Available water capacity	рН
Ap,A	0 to 20 in	clay loam		moderately slow	3.41 to 3.81 in	6.1 to 7.3
Bt 20	0 to 36 in	clay loam		moderately slow	2.36 to 2.99 in	6.6 to 7.3
Bk 36	6 to 48 in	clay loam		moderately slow	1.71 to 1.95 in	7.4 to 8.4
BC 48	8 to 80 in	clay loam		moderately slow	4.46 to 5.10 in	7.4 to 8.4



Available water

Lyon County, Minnesota

J238D2--Buse, firm till-Wilno complex, 12 to 18 percent slopes

Buse, firm till, moderately eroded

Extent: 50 to 70 percent of the unit Landform(s): hills on till plains
Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .24 Land capability, nonirrigated 4e

Hydrologic group: B

Potential for frost action: moderate

Available water

Representative soil profile:	Texture	Permeability	capacity	рН
Ap 0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk 9 to 34 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC 34 to 80 in	clay loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4

Wilno

Extent: 15 to 25 percent of the unit Landform(s): hills on till plains Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

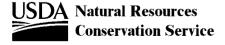
Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 4e
Hydric soil: no

Hydrologic group: B

Representative soil profile:		Texture	Permeability	Available water capacity	рН
Ар,А	0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB	42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2	52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3



Lyon County, Minnesota

J238E--Buse, firm till-Wilno complex, 18 to 25 percent slopes

Buse, firm till

Extent: 65 to 85 percent of the unit Landform(s): hills on till plains Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .24 Land capability, nonirrigated 6e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Available water

Representative soil profile:	Texture	Permeability	capacity	рН
Ap 0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk 9 to 34 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC 34 to 80 in	clay loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4

Wilno

Extent: 10 to 20 percent of the unit Landform(s): hills on till plains Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

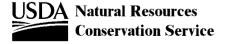
Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 6e
Hydric soil: no

Hydrologic group: B

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB	42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2	52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3



Lyon County, Minnesota

J238F--Buse, firm till-Wilno complex, 25 to 40 percent slopes

Buse, firm till

Extent: 65 to 85 percent of the unit Landform(s): hills on till plains Slope gradient: 25 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .24 Land capability, nonirrigated 7e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ар	0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk	9 to 34 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC 3	4 to 80 in	clav loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4

Wilno

Extent: 10 to 20 percent of the unit

Landform(s): hills on moraines

Slope gradient: 25 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

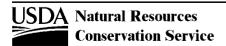
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: B

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB	42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2	52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3



Lyon County, Minnesota

J240B--Forman-Aastad complex, 3 to 6 percent slopes

Forman, occasional saturation

Extent: 40 to 60 percent of the unit Landform(s): hills on till plains Slope gradient: 3 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48 Kw factor (surface layer) .24 Land capability, nonirrigated 2e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	pН
Ap 0 to 8 in	clay loam	moderately slow	1.34 to 1.50 in	6.6 to 7.3
Bt1 8 to 14 in	clay loam	moderately slow	0.94 to 1.20 in	6.6 to 7.3
Bt2 14 to 17 in	clay loam	moderately slow	0.41 to 0.52 in	6.6 to 7.3
Bk 17 to 44 in	clay loam	moderately slow	3.80 to 4.35 in	7.4 to 8.4
Bkv 44 to 60 in	clay loam	moderately slow	2.20 to 2.52 in	7.4 to 8.4

Aastad

Soil loss tolerance (T factor): 5 Extent: 15 to 25 percent of the unit Landform(s): swales on till plains Slope gradient: 1 to 3 percent Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: moderately well drained

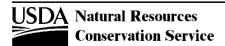
Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48 Kw factor (surface layer) .24 Land capability, nonirrigated 1 Hydric soil: no

Potential for frost action: moderate

L Available water

Hydrologic group: B

Representative s	oil profile:		Texture	Permeability	capacity	pН	
Ap,A1,A2 0	to 19 in	clay loam		moderately slow	3.21 to 3.59 in	6.1 to 7.3	
Bw 19	to 32 in	clay loam		moderately slow	1.95 to 2.47 in	6.6 to 7.3	
Bk 32	to 46 in	clay loam		moderately slow	1.98 to 2.27 in	7.4 to 8.4	
BC 46	to 60 in	clay loam		moderately slow	1.93 to 2.20 in	7.4 to 8.4	



Lyon County, Minnesota

J243A--Balaton clay loam, 1 to 3 percent slopes

Balaton

Extent: 85 to 95 percent of the unit Landform(s): knolls on till plains Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .24 Land capability, nonirrigated 2s

Hydric soil: no Hydrologic group: B

Potential for frost action: high

Representative s	soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0) to 10 in	clay loam	moderately slow	1.67 to 1.87 in	7.4 to 8.4
Bk 10	to 28 in	clay loam	moderately slow	2.54 to 2.90 in	7.4 to 8.4
BC 28	8 to 60 in	clay loam	moderately slow	4.46 to 5.10 in	7.4 to 8.4

Lyon County, Minnesota

J250C2--Forman-Buse complex, 6 to 12 percent slopes, moderately eroded

Forman, moderately eroded

Extent: 40 to 50 percent of the unit Landform(s): hills on till plains
Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .24
Land capability, nonirrigated 3e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Available water

Representative soil profile:	Texture	Permeability	capacity	рН
Ap 0 to 8 in	clay loam	moderately slow	1.34 to 1.50 in	6.6 to 7.3
Bt1 8 to 14 in	clay loam	moderately slow	0.94 to 1.20 in	6.6 to 7.3
Bt2 14 to 17 in	clay loam	moderately slow	0.41 to 0.52 in	6.6 to 7.3
Bk 17 to 44 in	clay loam	moderately slow	3.80 to 4.35 in	7.4 to 8.4
Bky 44 to 60 in	clay loam	moderately slow	2.20 to 2.52 in	7.4 to 8.4

Buse, moderately eroded, firm till

Extent: 35 to 45 percent of the unit Landform(s): hills on till plains Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86

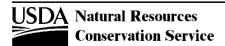
Kw factor (surface layer) .24 Land capability, nonirrigated 3e

Hydrologic group: B

Potential for frost action: moderate

L Δvailable water □

Representative	soil profile:	Texture	Permeability	capacity	рН
Ap	0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk	9 to 34 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC 3	4 to 80 in	clay loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4



Lyon County, Minnesota

J251A--Parnell silty clay loam, firm till, 0 to 2 percent slopes

Parnell, firm till

Extent: 70 to 80 percent of the unit

Landform(s): drainageways on till plains

Wind erodibility group (WEG): 7

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 38

Parent material: till

Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: none

Hydric soil: yes

Ponding: none Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative soi	l profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to	25 in	silty clay loam	moderately slow	4.54 to 5.54 in	6.1 to 7.3
Btg 25 to	44 in	silty clay	slow	2.46 to 3.02 in	6.1 to 7.3
Bkg 44 to	62 in	clay loam	moderately slow	2.48 to 2.83 in	7.4 to 8.4
BCa 62 to	80 in	clay loam	moderately slow	2.54 to 2.90 in	7.4 to 8.4



Lyon County, Minnesota

L84A--Glencoe clay loam, depressional, 0 to 1 percent slopes

Glencoe, depressional

Extent: 75 to 100 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none
Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile	e: Text	ure Permeability	Available water capacity	рН
Ap,A 0 to 24 in	clay loam	moderate	4.32 to 5.28 in	6.1 to 7.8
ABg 24 to 35 in	clay loam	moderate	1.98 to 2.43 in	6.1 to 7.8
Bg 35 to 48 in	loam	moderate	1.95 to 2.47 in	6.6 to 7.8
Cg 48 to 60 in	loam	moderate	1.77 to 2.24 in	7.4 to 8.4

Lyon County, Minnesota

L96B--Estherville-Hawick complex, 2 to 6 percent slopes

Estherville

Extent: 40 to 65 percent of the unit

Soil loss tolerance (T factor): 3

Landform(s): hills on outwash plains, hills on stream terraces

Wind erodibility group (WEG): 3

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 86

Parent material: sandy outwash

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: somewhat excessively drained Potential for frost action: low

Representative sol	il profile:	Texture	Permeability	capacity	pН
Ap,A 0 to	13 in	sandy loam	moderately rapid	1.69 to 2.34 in	5.6 to 7.3
Bw1 13 to	18 in	sandy loam	moderately rapid	0.61 to 0.85 in	5.6 to 7.3
2Bw2 18 to	23 in	loamy coarse sand	rapid	0.10 to 0.20 in	5.6 to 7.3
2C 23 to	60 in	gravelly coarse sand	rapid	0.74 to 1.48 in	6.6 to 8.4

Hawick

Extent: 25 to 40 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): hills on outwash plains, hills on stream terraces Wind erodibility group (WEG): 8

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 86

Parent material: sandy outwash

Kw factor (surface layer) .17

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4s

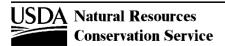
Flooding: none

Hydric soil: no

Hydrologic group: A

Drainage class: excessively drained Potential for frost action: low

Representative soil profile:		Texture	Permeability	Available water capacity	рН
Ap	0 to 7 in	sandy loam	moderately rapid	0.92 to 1.06 in	6.1 to 7.8
Bw	7 to 11 in	gravelly loamy coarse sand	rapid	0.12 to 0.39 in	6.1 to 7.8
C 1	1 to 80 in	gravelly coarse sand	very rapid	1.38 to 4.13 in	7.4 to 8.4



Available water

Lyon County, Minnesota

L139A--Wadena loam, 0 to 2 percent slopes

Wadena

Extent: 80 to 90 percent of the unit Soil loss tolerance (T factor): 4 Wind erodibility group (WEG): 6

Landform(s): flats on outwash plains, rises on outwash plains, flats on stream terraces, rises on stream

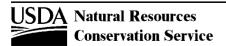
terraces

Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 48 Parent material: loamy sediments over outwash Kw factor (surface layer) .24 Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 2s

Flooding: none Hydric soil: no Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 13 in	loam	moderate	2.60 to 2.86 in	6.1 to 7.3
Bw1 13 to 20 in	loam	moderate	0.99 to 1.35 in	5.6 to 7.3
Bw2 20 to 30 in	sandy loam	moderately rapid	1.28 to 1.77 in	5.6 to 7.3
2C 30 to 60 in	gravelly coarse sand	rapid	0.60 to 1.20 in	6.6 to 8.4



Lyon County, Minnesota

L142A--Jeffers clay loam, 0 to 2 percent slopes

Jeffers

Extent: 80 to 95 percent of the unit

Landform(s): rims on depressions on moraines, flats on

moraines

Slope gradient: 0 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: poorly drained

Soil loss tolerance (*T factor*): 5 Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48 Kw factor (surface layer) .24 Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile.	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 18 in	clay loam	moderate	3.08 to 3.44 in	7.4 to 8.4
Bg 18 to 22 in	clay loam	moderate	0.59 to 0.75 in	7.9 to 8.4
Bkg,Bk 22 to 35 in	clay loam	moderate	1.95 to 2.47 in	7.9 to 8.4
BC1,2 35 to 60 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4

Lyon County, Minnesota

L172D2--Storden, firm till-Annton complex, 12 to 18 percent slopes, moderately eroded

Storden, moderately eroded, firm till

Extent: 40 to 60 percent of the unit Landform(s): hills on moraines Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28

Land capability, nonirrigated 4e

Hydrologic group: B

Potential for frost action: moderate

Representative soil	l profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to	8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk 8 to	20 in	loam	moderate	2.07 to 2.32 in	7.9 to 8.4
BC 20 to	80 in	clay loam	moderately slow	8.38 to 9.57 in	7.4 to 8.4

Annton, moderately, eroded

Extent: 20 to 45 percent of the unit

Landform(s): hills on moraines

Wind erodibility group (WEG):

Wind erodibility index (WEI): 48

Slope gradient: 12 to 18 percent

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Parent material: till

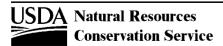
Drainage class: well drained

Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 3e

Hydrologic group: B

Hydric soil: no

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 8 in	clay loam	moderate	1.42 to 1.73 in	6.1 to 7.3
Bw 8 to 26 in	clay loam	moderate	3.08 to 3.44 in	6.1 to 7.3
Bk 26 to 60 in	loam	moderate	5.76 to 6.43 in	7.9 to 8.4
BC 60 to 80 in	clay loam	moderately slow	2.81 to 3.21 in	7.4 to 8.4



Lyon County, Minnesota

L173A--Moines clay loam, 1 to 3 percent slopes

Moines

Extent: 80 to 95 percent of the unit

Landform(s): flats on moraines, rises on moraines

Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .24 Land capability, nonirrigated 2s

Hydric soil: no Hydrologic group: B

Potential for frost action: high

Representativ	ve soil profile:	Texture	Permeability	Available water capacity	рН
Ap,ABy	0 to 14 in	clay loam	moderate	2.41 to 2.69 in	7.4 to 8.4
Byg1,2,Bk	14 to 40 in	loam	moderate	4.42 to 4.94 in	7.9 to 8.4
BCg	40 to 60 in	clay loam	moderately slow	2.76 to 3.15 in	7.4 to 8.4

Lyon County, Minnesota

L198A--North Twin-Walnut Grove complex, 0 to 2 percent slopes

North Twin

Extent:60 to 80 percent of the unitSoil loss tolerance (T factor): 5Landform(s):hills on morainesWind erodibility group (WEG): 7Slope gradient:0 to 2 percentWind erodibility index (WEI): 38Parent material:Kw factor (surface layer).24

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 1

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap 0 to 10 in	clay loam	moderately slow	1.67 to 1.87 in	6.6 to 7.3
Bw 10 to 18 in	clay loam	moderately slow	1.16 to 1.49 in	6.1 to 7.3
Bk 18 to 31 in	clay loam	moderately slow	1.82 to 2.08 in	7.4 to 8.4
BCa.BC1.2 31 to 80 in	clav loam	moderately slow	6.83 to 7.81 in	7.4 to 8.4

Walnut Grove

Extent: 15 to 25 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): flats on moraines, rises on moraines Wind erodibility group (WEG): 7

Slope gradient: 1 to 3 percent Wind erodibility index (WEI): 38

Parent material: till Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 1

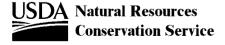
Flooding: none

Hydric soil: no

Ponding: none Hydrologic group: B

Drainage class: somewhat poorly drained Potential for frost action: moderate

Representative	soil profile:		Texture	Permeability	Available water capacity	рН
Ар,А	0 to 14 in	clay loam		moderately slow	2.41 to 2.69 in	6.6 to 7.3
Bw 1	4 to 28 in	clay loam		moderate	2.48 to 3.31 in	6.1 to 7.3
Bk 2	8 to 39 in	clay loam		moderately slow	1.54 to 1.76 in	7.4 to 8.4
BC1,2 3	9 to 80 in	clay loam		moderately slow	5.73 to 6.55 in	7.4 to 8.4



Available water

Lyon County, Minnesota

L198B--North Twin-Walnut Grove complex, 1 to 4 percent slopes

North Twin

Extent: 50 to 70 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Slope gradient: 1 to 4 percent

Wind erodibility index (WEI): 38

Parent material: till

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2e

Hydric soil: no

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: high

Representative s	oil profile:		Texture	Permeability	Available water capacity	рН
Ap 0	to 10 in	clay loam		moderately slow	1.67 to 1.87 in	6.6 to 7.3
Bw 10	to 18 in	clay loam		moderately slow	1.16 to 1.49 in	6.1 to 7.3
Bk 18	to 31 in	clay loam		moderately slow	1.82 to 2.08 in	7.4 to 8.4
BCg,BC1,2 31	to 80 in	clay loam		moderately slow	6.83 to 7.81 in	7.4 to 8.4

Walnut Grove

Extent: 15 to 35 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): flats on moraines, rises on moraines Wind erodibility group (WEG): 7

Slope gradient: 1 to 3 percent Wind erodibility index (WEI): 38
Parent material: till Kw factor (surface layer) .24

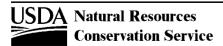
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 1

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: somewhat poorly drained Potential for frost action: moderate

Representative soil pro	ofile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 i	in clay loam		moderately slow	2.41 to 2.69 in	6.6 to 7.3
Bw 14 to 28 i	in clay loam		moderate	2.48 to 3.31 in	6.1 to 7.3
Bk 28 to 39 i	in clay loam		moderately slow	1.54 to 1.76 in	7.4 to 8.4
BC1,2 39 to 80 i	in clay loam		moderately slow	5.73 to 6.55 in	7.4 to 8.4



Lyon County, Minnesota

L201A--Normania loam, 0 to 3 percent slopes

Normania

Extent: 75 to 90 percent of the unit

Landform(s): flats on moraines, rises on moraines

Slope gradient: 0 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48

Kw factor (surface layer) .24 Land capability, nonirrigated 1

Hydric soil: no Hydrologic group: B

Potential for frost action: high

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A,AB	0 to 17 in	loam	moderate	3.39 to 3.72 in	6.1 to 7.3
Bw	17 to 26 in	loam	moderate	1.36 to 1.72 in	6.6 to 7.3
Bk	26 to 50 in	loam	moderate	3.60 to 4.56 in	7.4 to 8.4
Cg	50 to 60 in	loam	moderate	1.48 to 1.87 in	7.4 to 8.4

Lyon County, Minnesota

L202A--Pell Creek-Romnell complex, 0 to 2 percent slopes

Pell Creek

Extent: 35 to 70 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): drainageways on moraines, flats on moraines, Wind erodibility group (WEG): 6

swales on moraines

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: till Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: none

Hydric soil: yes

Ponding: none

Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representativ	ve soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A,AB	0 to 20 in	clay loam	moderate	3.41 to 3.81 in	6.1 to 7.3
Bg	20 to 34 in	clay loam	moderate	2.07 to 2.62 in	7.4 to 8.4
BCg,BC1,2	34 to 80 in	clay loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4

Romnell

Extent: 15 to 45 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): drainageways on moraines, swales on moraines

Wind erodibility group (WEG): 6

Slope gradient: 0 to 3 percent Wind erodibility index (WEI): 48
Parent material: till Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: none

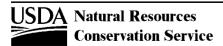
Hydric soil: yes

Ponding: none

Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representativ	e soil profile:	Texture	Permeability	capacity	рН
Ap,A	0 to 18 in	clay loam	moderate	3.08 to 4.35 in	6.6 to 7.8
Bg	18 to 27 in	clay loam	moderate	1.54 to 2.17 in	6.6 to 7.8
Btyg	27 to 33 in	clay loam	moderately slow	0.89 to 1.12 in	6.6 to 7.8
Bkg	33 to 43 in	clay loam	moderately slow	1.38 to 1.57 in	7.4 to 8.4
BCkg	43 to 60 in	clay loam	moderately slow	2.37 to 2.71 in	7.4 to 8.4



Available water

Lyon County, Minnesota

L207E--Belview, firm till-Ridgeton, firm till substratum complex, 18 to 25 percent slopes

Belview, firm till

Extent: 65 to 85 percent of the unit Landform(s): escarpments on moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative	e soil	profile:	Texture	Permeability	Available water capacity	рН
Α	0 to	8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk	8 to	48 in	loam	moderate	6.02 to 7.63 in	7.4 to 8.4
BC1,2	48 to	80 in	clay loam	moderately slow	4.46 to 5.10 in	7.4 to 8.4

Ridgeton, firm till substratum

Extent: 10 to 20 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): escarpments on moraines

Wind erodibility group (WEG): 6

Slope gradient: 18 to 25 percent

Wind erodibility index (WEI): 48

Parent material: colluvium over till

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 6e

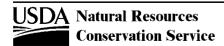
Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representativ	e soil profile:		Texture	Permeability	Available water capacity	рН
A1,A2,AB	0 to 31 in	loam		moderate	6.22 to 6.84 in	6.1 to 7.3
BA	31 to 49 in	loam		moderate	3.54 to 3.90 in	6.1 to 7.3
Bw	49 to 64 in	clay loam		moderate	2.46 to 2.76 in	6.1 to 7.3
BC	64 to 80 in	clay loam		moderately slow	2.20 to 2.52 in	7.4 to 8.4



Lyon County, Minnesota

L207F--Belview, firm till-Ridgeton, firm till substratum complex, 18 to 40 percent slopes

Belview, firm till

Extent: 65 to 85 percent of the unit Landform(s): escarpments on moraines

Slope gradient: 18 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw factor (surface layer) .28

Land capability, nonirrigated 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Α	0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk	8 to 48 in	loam	moderate	6.02 to 7.63 in	7.4 to 8.4
BC1 2 4	8 to 80 in	clay loam	moderately slow	4 46 to 5 10 in	7.4 to 8.4

Ridgeton, firm till substratum

Extent: 10 to 20 percent of the unit

Soil loss tolerance (
Landform(s): escarpments on moraines

Wind erodibility group

Slope gradient: 18 to 35 percent Parent material: colluvium over till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

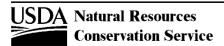
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .24

Land capability, nonirrigated 6e

Hydric soil: no Hydrologic group: B

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
A1,A2,AB	0 to 31 in	loam	moderate	6.22 to 6.84 in	6.1 to 7.3
BA	31 to 49 in	loam	moderate	3.54 to 3.90 in	6.1 to 7.3
Bw	49 to 64 in	clay loam	moderate	2.46 to 2.76 in	6.1 to 7.3
BC	64 to 80 in	clay loam	moderately slow	2.20 to 2.52 in	7.4 to 8.4



Lyon County, Minnesota

L214A--Calco-Du Page complex, 0 to 2 percent slopes, frequently flooded

Calco, frequently flooded

Extent: 40 to 70 percent of the unit Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 5w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Available water

Representative soil profile	e: Texture	Permeability	capacity	рН
Ap,A1 0 to 14 in	silty clay loam	moderate	2.98 to 3.26 in	7.4 to 8.4
A2 14 to 40 in	silty clay loam	moderate	5.46 to 5.98 in	7.4 to 8.4
Ca 40 to 60 in	silty clay loam	moderate	3.54 to 3.94 in	7.4 to 8.4

Du Page, frequently flooded

Extent: 40 to 60 percent of the unit

Landform(s): flats on flood plains, rises on flood plains

Slope gradient: 0 to 2 percent Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent Ponding: none

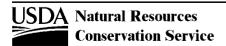
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28

Land capability, nonirrigated 5w

Hydrologic group: B

Representative soil profile:	Texture	Permeability	Available water capacity	рН
A1,A2 0 to 36 in	loam	moderate	7.17 to 7.88 in	6.6 to 8.4
C1,C2 36 to 60 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4



Lyon County, Minnesota

L220A--Calco silty clay loam, 0 to 2 percent slopes, occasionally flooded

Calco, occasionally flooded

Extent: 75 to 90 percent of the unit

Landform(s): flats on flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: occasional Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	pН
Ap,A1 0 to 14 in	silty clay loam	moderate	2.98 to 3.26 in	7.4 to 8.4
A2 14 to 40 in	silty clay loam	moderate	5.46 to 5.98 in	7.4 to 8.4
Cg 40 to 60 in	silty clay loam	moderate	3.54 to 3.94 in	7.4 to 8.4

L221A--Du Page loam, 0 to 2 percent slopes, occasionally flooded

Du Page, occasionally flooded

Extent: 75 to 90 percent of the unit

Landform(s): flats on flood plains, rises on flood plains

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: alluvium

Kw factor (surface layer) .28

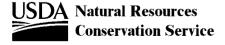
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2w

Flooding: occasional Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A1,A2	0 to 36 in	loam	moderate	7.17 to 7.88 in	6.6 to 8.4
C1,C2	36 to 60 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4



Lyon County, Minnesota

L222C2--Ves-Storden-Pilot Grove complex, 6 to 12 percent slopes, moderately eroded

Ves, moderately eroded

Extent: 25 to 40 percent of the unit Landform(s): moraines on hills Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .24
Land capability, nonirrigated 3e

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 8 in	loam	moderate	1.57 to 1.73 in	6.1 to 7.3
Bw 8 to 22 in	loam	moderate	2.13 to 2.69 in	6.6 to 7.3
Bk 22 to 33 in	loam	moderate	1.87 to 2.09 in	7.4 to 8.4
C 33 to 60 in	loam	moderate	4.55 to 5.09 in	7.4 to 8.4

Storden, moderately eroded

Extent: 20 to 40 percent of the unit

Landform(s): moraines on hills

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

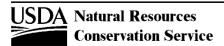
Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw factor (surface layer) .28
Land capability, nonirrigated 3e

Hydrologic group: B

Potential for frost action: moderate

Available water

Representative soil prof.	ile: Textur	re Permeability	capacity	рН
Ap 0 to 7 in	loam	moderate	1.42 to 1.56 in	7.4 to 8.4
Bk 7 to 55 in	loam	moderate	7.20 to 9.13 in	7.4 to 8.4
C 55 to 80 in	loam	moderate	3.72 to 4.71 in	7.4 to 8.4



Lyon County, Minnesota

L222C2--Ves-Storden-Pilot Grove complex, 6 to 12 percent slopes, moderately eroded

Pilot Grove

Extent: 15 to 35 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Slope gradient: 6 to 12 percent

Wind erodibility index (WEI): 86

Parent material: outwash over till

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4s

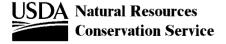
Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: B

Drainage class: somewhat excessively drained Potential for frost action: low

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 9 in	sandy loam	moderately rapid	1.18 to 1.63 in	5.6 to 7.3
Bw	9 to 17 in	sandy loam	moderately rapid	1.02 to 1.42 in	5.6 to 7.3
2BC 1	7 to 21 in	loamy sand	rapid	0.08 to 0.16 in	5.6 to 7.3
2C 2	1 to 58 in	gravelly coarse sand	rapid	0.74 to 1.48 in	6.6 to 8.4
3C 5	8 to 80 in	loam	moderate	3.31 to 4.19 in	7.4 to 8.4



Lyon County, Minnesota

L225B--Annton-North Twin complex, 3 to 6 percent slopes

Annton

Extent: 40 to 55 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Slope gradient: 3 to 6 percent

Wind erodibility index (WEI): 38

Parent material: till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile	e: Texture	Permeability	capacity	рН
Ap 0 to 10 in	clay loam	moderate	1.77 to 2.17 in	6.1 to 7.3
Bw 10 to 22 in	clay loam	moderate	2.07 to 2.32 in	6.1 to 7.3
Bk 22 to 60 in	loam	moderately slow	5.29 to 6.05 in	7.4 to 8.4
BC 60 to 80 in	clay loam	moderately slow	2.81 to 3.21 in	7.4 to 8.4

North Twin

Extent: 15 to 45 percent of the unit

Landform(s): hills on moraines

Wind erodibility group (WEG): 7

Slope gradient: 1 to 4 percent

Wind erodibility index (WEI): 38

Parent material: till

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2e

Flooding: none

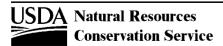
Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 10 in	clay loam	moderately slow	1.67 to 1.87 in	6.6 to 7.3
Bw 10 to 18 in	clay loam	moderately slow	1.16 to 1.49 in	6.1 to 7.3
Bk 18 to 31 in	clay loam	moderately slow	1.82 to 2.08 in	7.4 to 8.4
BCg,BC1,2 31 to 80 in	clay loam	moderately slow	6.83 to 7.81 in	7.4 to 8.4



Available water

Lyon County, Minnesota

L226C2--Annton-Storden, firm till complex, 6 to 12 percent slopes, moderately eroded

Annton, moderately eroded

Extent: 30 to 60 percent of the unit Landform(s): hills on moraines Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 3e

Hydrologic group: B

Potential for frost action: moderate

Representative	soil profile:		Texture	Permeability	Available water capacity	рН
Ap	0 to 8 in	clay loam		moderate	1.42 to 1.73 in	6.1 to 7.3
Bw	8 to 21 in	clay loam		moderate	2.21 to 2.47 in	6.1 to 7.3
Bk 2	1 to 34 in	clay loam		moderately slow	1.82 to 2.08 in	7.4 to 8.4
BC1,2 3	4 to 80 in	clay loam		moderately slow	6.45 to 7.37 in	7.4 to 8.4

Storden, moderately eroded, firm till

Extent: 25 to 50 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance
Wind erodibility gr
Slope gradient: 6 to 12 percent

Wind erodibility in

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

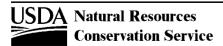
Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw factor (surface layer) .28
Land capability, nonirrigated 3e

Hydrologic group: B

Potential for frost action: moderate

Hydric soil: no

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ар	0 to 10 in	loam	moderate	1.97 to 2.17 in	7.4 to 8.4
Bk	10 to 31 in	clay loam	moderately slow	2.98 to 3.40 in	7.4 to 8.4
BC	31 to 80 in	clay loam	moderately slow	6.83 to 7.81 in	7.4 to 8.4



Lyon County, Minnesota

L229A--Romnell silty clay loam, depressional, 0 to 1 percent slopes

Romnell, depressional

Extent: 75 to 95 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): depressions on moraines

Wind erodibility group (WEG): 6

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 48

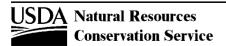
Parent material: till Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil	profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to	23 in	silty clay loam	moderately slow	4.80 to 5.25 in	6.1 to 7.8
Bg1,2 23 to	43 in	silty clay loam	moderate	3.41 to 4.82 in	6.6 to 7.8
BCg1 43 to	51 in	clay loam	moderately slow	1.24 to 1.57 in	6.6 to 7.8
BCq2 51 to	80 in	clay loam	moderately slow	4.02 to 4.60 in	7.4 to 8.4



Lyon County, Minnesota

L234A--Romnell silty clay loam, ponded, 0 to 1 percent slopes

Romnell, ponded

Extent: 75 to 95 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none
Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 8
Wind erodibility index (WEI): 0
Kw factor (surface layer) .28
Land capability, nonirrigated 8w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
A	0 to 42 in	silty clay loam	moderate	7.58 to 9.27 in	6.1 to 7.8
Bg 4	42 to 50 in	clay loam	moderate	1.18 to 1.50 in	6.6 to 7.8
BCg1	50 to 51 in	clay loam	moderately slow	0.18 to 0.22 in	6.6 to 7.8
BCg2	51 to 80 in	clay loam	moderately slow	4.02 to 4.60 in	7.4 to 8.4

Lyon County, Minnesota

L242B--Terril loam, firm till substratum, 2 to 6 percent slopes

Terril, firm till substratum

Extent: 80 to 95 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): hills on moraines

Wind erodibility group (WEG): 6

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 48

Parent material: colluvium over till

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A1,A2 0 to 30 in	loam	moderate	5.98 to 6.58 in	6.1 to 7.3
A3,AB 30 to 40 in	loam	moderate	1.74 to 1.94 in	6.1 to 7.3
Bw 40 to 61 in	loam	moderate	3.34 to 3.76 in	6.1 to 7.3
BC 61 to 80 in	clay loam	moderately slow	2.65 to 3.02 in	7.4 to 8.4



Lyon County, Minnesota

L243A--Havelock-Zumbro complex, 0 to 3 percent slopes, frequently flooded

Havelock, frequently flooded

Extent: 50 to 85 percent of the unit Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated 5w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil prof	ile: Texture	Permeability	capacity	рН
A1,A2 0 to 32 in	loam	moderate	5.42 to 7.33 in	7.4 to 8.4
Ca 32 to 60 in	ı clav loam	moderate	4.75 to 5.59 in	7.4 to 8.4

Zumbro, frequently flooded

Extent: 10 to 20 percent of the unit

Landform(s): flood plains Slope gradient: 0 to 2 percent Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 3

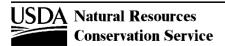
Wind erodibility index (WEI): 86 Kw factor (surface layer) .20 Land capability, nonirrigated 3s

Hydric soil: yes Hydrologic group: A

Potential for frost action: low

Available water

Representative soil p	orofile:	Texture	Permeability	capacity	рН
A 0 to	10 in	fine sandy loam	moderately rapid	1.57 to 1.77 in	6.1 to 7.8
AB 10 to 4	42 in	loamy fine sand	rapid	2.58 to 3.23 in	6.1 to 7.8
C 42 to 6	60 in	fine sand	rapid	0.35 to 1.24 in	7.4 to 7.8



Lyon County, Minnesota

L246B--Dickman sandy loam, firm till substratum, 1 to 6 percent slopes

Dickman, firm till substratum

Extent: 75 to 95 percent of the unit

Landform(s): outwash plains on hills

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Slope gradient: 1 to 6 percent

Wind erodibility index (WEI): 86

Parent material: outwash

Kw factor (surface layer) .20

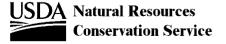
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: somewhat excessively drained Potential for frost action: low

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 12 in	sandy loam	moderately rapid	1.54 to 1.77 in	6.1 to 6.5
Bw 1	12 to 19 in	sandy loam	moderately rapid	0.85 to 0.99 in	6.1 to 7.3
2Bw,C 1	19 to 60 in	coarse sand	rapid	2.05 to 2.87 in	6.1 to 7.8
3C 6	60 to 80 in	clay loam	moderately slow	2.81 to 3.21 in	7.4 to 8.4



Lyon County, Minnesota

L248B--Annton-Swanlake, firm till complex, 3 to 6 percent slopes

Annton

Extent: 35 to 65 percent of the unit Landform(s): hills on moraines Slope gradient: 3 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Kw factor (surface layer) .28
Land capability, nonirrigated 2e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Available water

Representative soil profile:	Texture	Permeability	capacity	рН
Ap 0 to 10 in	clay loam	moderate	1.77 to 2.17 in	6.1 to 7.3
Bw 10 to 22 in	clay loam	moderate	2.07 to 2.32 in	6.1 to 7.3
Bk 22 to 60 in	loam	moderately slow	5.29 to 6.05 in	7.4 to 8.4
BC 60 to 80 in	clay loam	moderately slow	2.81 to 3.21 in	7.4 to 8.4

Swanlake, firm till

Extent: 30 to 50 percent of the unit

Landform(s): hills on moraines

Slope gradient: 3 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

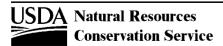
Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86 Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no Hydrologic group: B

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 8 in	clay loam	moderately slow	1.34 to 1.50 in	7.4 to 8.4
ABK 8 to 18 in	clay loam	moderately slow	1.43 to 1.64 in	7.4 to 8.4
BK 18 to 40 in	clay loam	moderately slow	3.09 to 3.53 in	7.4 to 8.4
BC 40 to 80 in	clay loam	moderately slow	5.57 to 6.36 in	7.4 to 8.4



Lyon County, Minnesota

L249A--Knoke silty clay loam, firm till substratum, depressional, 0 to 1 percent slopes

Knoke, firm till substratum, depressional

Extent: 75 to 90 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): depressions on lake plains, depressions on

Wind erodibility group (WEG): 4L

moraines

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 86
Parent material: lacustrine sediments Kw factor (surface layer) .32

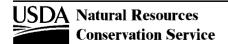
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:		Texture	Permeability	Available water capacity	рН
Ap,A1,A2	0 to 10 in	mucky silty clay loam	moderately slow	2.07 to 2.26 in	7.4 to 8.4
ABg	10 to 42 in	silty clay loam	moderately slow	6.78 to 7.43 in	7.4 to 8.4
Bg	42 to 63 in	silty clay loam	moderately slow	3.76 to 4.17 in	7.4 to 8.4
BCq	63 to 80 in	clay loam	moderately slow	2.37 to 2.71 in	7.4 to 8.4



Lyon County, Minnesota

L250A--Lowlein loam, firm till, 1 to 3 percent slopes

Lowlein, firm till

Extent: 80 to 90 percent of the unit

Landform(s): flats on moraines, rises on moraines, flats on

stream terraces, rises on stream terraces

Slope gradient: 1 to 3 percent Parent material: outwash over till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86 Kw factor (surface layer) .20 Land capability, nonirrigated 1

Hydric soil: no Hydrologic group: B

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,AB 0 to 14 in	loam	moderately rapid	1.84 to 2.13 in	6.1 to 7.3
Bw1 14 to 24 in	sandy loam	moderately rapid	1.18 to 1.38 in	6.1 to 7.3
2Bw2 24 to 31 in	loamy sand	rapid	0.43 to 0.78 in	6.1 to 7.3
3BC 31 to 80 in	clay loam	moderately slow	6.83 to 7.81 in	7.4 to 8.4

Lyon County, Minnesota

L251A--Blue Earth mucky silt loam, firm till substratum, depressional, 0 to 1 percent slopes

Blue Earth, depressional

Extent: 85 to 95 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): depressions on lake plains, depressions on

Wind erodibility group (WEG): 6

moraines

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 48

Parent material: coprogenic material Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:		Texture	Permeability	Available water capacity	рН
Ap	0 to 10 in	silty clay loam	moderate	1.77 to 2.36 in	7.4 to 8.4
Cg 1	10 to 68 in	silty clay loam	moderate	10.42 to 13.89 in	7.4 to 8.4
BCq 6	88 to 80 in	clay loam	moderately slow	1.71 to 1.95 in	7.4 to 8.4

M-W--Water, miscellaneous

Water, miscellaneous

Extent: 100 percent of the unit Soil loss tolerance (T factor):

Landform(s): Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated

Flooding: Hydric soil:
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

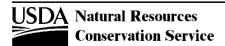
Representative soil profile:

Texture

Permeability

Available water capacity

PH



Lyon County, Minnesota

W--Water

Water

Extent: 100 percent of the unit Soil loss tolerance (T factor):

Landform(s): Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated

Flooding: Hydric soil:
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

This report provides a semitabular listing of some soil and site properties and interpretations that are valuable in communicating the concept of a map unit. The report also provides easy access to the commonly used conservation planning information in one place. The major soil components in each map unit are displayed. Minor components may be displayed if they are included in the database and are selected at the time the report is generated.

